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UNITED STATES CENSUS OF AGRICULTURE 1959

The United States Irrigation of Agricultural Lands

U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS

U.S. CENSUS OF AGRICULTURE : 1959

Final Report—Vol. III

ORGANIZATIONS

FARMS AND ACREAGE IRRIGATED

INVESTMENT • WATER USED • COST

The United States

IRRIGATION OF AGRICULTURAL LANDS

Prepared under the supervision of
RAY HURLEY, Chief
Agriculture Division



U.S. DEPARTMENT OF COMMERCE

Luther H. Hodges, *Secretary*

BUREAU OF THE CENSUS

Richard M. Scammon, *Director (From May 1, 1961)*

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PREFACE

Volume III: Irrigation of Agricultural Lands presents all available data for the 1959 Census of Irrigation.

The 1959 Census of Irrigation covered irrigation only in the 17 conterminous Western States, Louisiana, and Hawaii. This report presents some summary data on irrigated land for the same area, obtained in the 1959 Census of Agriculture.

The 1959 Census of Irrigation was taken in conformity with the Act of Congress of August 31, 1954 (amended August 1957), which was codified Title 13, United States Code.

Most of the data presented in the report were collected by mail. Reports for irrigation enterprises with operations limited to a drainage basin area for which reports could not be obtained by mail were secured by census enumerators.

The planning of the census was performed by Hugh H. Hansen and Henry L. DeGraff, Irrigation Economists, under the supervision of Ray Hurley, Chief, Agriculture Division. Census enumerators worked under the supervision of Robert B. Voight, then Chief of the Field Division. Reports of irrigation enterprises with operations in more than one drainage basin were obtained by John Zimmer, Raymond Anderson, and Wayne Ehlers of the Agricultural Research Service of the U.S. Department of Agriculture, working as special agents of the Bureau of the Census. The compilation of the statistics was under the supervision of Henry L. DeGraff. George Coffman reviewed most of the tabulations and the statistical tables. Maps accompanying this report were prepared under the supervision of William T. Fay, Chief of the Geography Division, Bureau of the Census. This report was written by Henry L. DeGraff, Irrigation Economist, Warder B. Jenkins, Assistant Chief, Agriculture Division, and Ray Hurley, Chief of the Agriculture Division.

October 1962.

III

UNITED STATES CENSUS OF AGRICULTURE: 1959

FINAL REPORTS

Volume I—Counties—A separate part for each State, Puerto Rico, Guam, Virgin Islands, and American Samoa. Statistics on number of farms; farm characteristics; acreage in farms; cropland and other uses of land; land-use practices; irrigation; farm facilities and equipment; farm labor; farm expenditures; use of commercial fertilizer; number and kind of livestock; acres and production of crops; value of farm products; characteristics of commercial farms, farms classified by tenure, size, type, and economic class; and comparative data from the 1954 Census.

Part	State or States	Part	State or States	Part	State or States	Part	State or States
1	New England States:	15	West North Central:	30	East South Central:	44	Mountain—Con.
2	Maine.	16	Minnesota.	31	Kentucky.	45	Utah.
3	New Hampshire.	17	Iowa.	32	Tennessee.		Nevada.
4	Vermont.	18	Missouri.	33	Alabama.		Pacific:
5	Massachusetts.	19	North Dakota.	34	Mississippi.	46	Washington.
6	Rhode Island.	20	South Dakota.	35	West South Central:	47	Oregon.
7	Connecticut.	21	Nebraska.	36	Arkansas.	48	California.
8	Middle Atlantic States:	22	Kansas.	37	Louisiana.	49	Alaska.
9	New York.	23	South Atlantic:	38	Oklahoma.	50	Hawaii.
10	New Jersey.	24	Delaware.	39	Texas.		Other Areas:
11	Pennsylvania.	25	Maryland.	40	Montana.	51	American Samoa.
12	East North Central:	26	Virginia.	41	Idaho.	52	Guam.
13	Ohio.	27	West Virginia.	42	Wyoming.	53	Puerto Rico.
14	Indiana.	28	North Carolina.	43	Colorado.	54	Virgin Islands.
	Illinois.	29	South Carolina.		New Mexico.		
	Michigan.		Georgia.		Arizona.		
	Wisconsin.		Florida.				

Volume II—General Report—In 1 volume and also as 13 separates (for the Introduction and for each chapter). Statistics by subjects for 1959 and prior censuses. Statistics are presented for the United States, geographic regions, and divisions, and for the States.

Chapter	Title	Chapter	Title
I	Introduction.	VII	Field Crops and Vegetables.
II	Farms and Land in Farms.	VIII	Fruits and Nuts, Horticultural Specialties, Forest Products.
III	Age, Residence, Years on Farm, Work Off Farm.	IX	Value of Farm Products.
IV	Farm Facilities, Farm Equipment.	X	Color, Race, and Tenure of Farm Operator.
V	Farm Labor, Use of Fertilizer, Farm Expenditures, and Cash Rent.	XI	Economic Class of Farm.
VI	Size of Farm.	XII	Type of Farm.
	Livestock and Livestock Products.		

Volume III—Irrigation of Agricultural Lands—Data from the Irrigation Censuses of 1959 and 1950, by drainage basins, for the conterminous United States and for each of the 17 western States and Louisiana. Separate maps are available. Report also includes data from the 1959 Census of Agriculture for land irrigated and acres and production of crops on irrigated land in the 18 conterminous States and Hawaii.

Volume IV—Drainage of Agricultural Lands—Statistics for States and counties and for the conterminous United States, presenting 1960 data on number, area, physical works, and costs for drainage projects of 500 or more acres by size, type, and year organized. Maps are included.

Volume V—Special Reports

Part 1.—Special Census of Horticultural Specialties—Statistics for States, except Alaska and Hawaii, and for the conterminous United States, presenting 1959 data on number and kinds of operations, gross receipts and/or sales, sales of specified products, inventories, employment, and structures and equipment.

Part 2.—Irrigation in Humid Areas—Statistics for 30 eastern States showing 1960 data on acres irrigated, number of constructed ponds and reservoirs, source and method of applying water, type of pumping power, acreage of individual crops irrigated, and frequency of irrigation by States and counties.

Part 3.—Ranking Agricultural Counties—Statistics for selected items of inventory and agricultural production for the leading counties in the United States.

Part 4.—Farm Taxes and Farm Mortgage—A cooperative report by the Economic Research Science, U.S. Department of

Agriculture and the Bureau of the Census, U.S. Department of Commerce, presenting 1961 data by States on taxes on farms, number of mortgaged farms operated by full owners and part owners, amount of mortgage debt held by principal lending agencies, and amount of interest paid.

Part 5.—1960 Sample Survey of Agriculture—Statistics by economic class and type of farm, showing 1960 data on farm-operator-family income from farm and off-farm sources; inventory and use of selected types of farm equipment, tractors by year made and fuel used; number, size, and materials used for new buildings constructed 1958 to 1960; number of farmers having contracts with dealers, processors, or others for the production and marketing of 15 farm products; and real estate and non-real-estate debts of farm operators and farm landlords by lending agencies.

Part 6.—A Graphic Summary of Agriculture, 1959—A cooperative report by the Economic Research Service, U.S. Department of Agriculture and the Bureau of the Census, U.S. Department of Commerce, presenting graphically for 1959 and prior census years some of the significant uses of agricultural land; the extent and nature of the various kinds of tenure under which farms are held and operated; and changes and developments in the use of agricultural resources and production of agricultural products.

Special Publication—Principal Data-Collection Forms and Procedures—United States Census of Agriculture, 1959, and Related Surveys—Facsimiles of the enumeration forms used, showing variations for the 50 States, Puerto Rico, American Samoa, Guam, and the Virgin Islands, together with brief descriptions of the census field procedures for the census and the related surveys.

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INTRODUCTION

(vii)

INTRODUCTION

1959 CENSUS OF IRRIGATION

Data regarding irrigation were collected from two sources for the 1959 Censuses of Agriculture and Irrigation.

In the 1959 Census of Agriculture, information about irrigation was collected directly from farm operators regarding acres irrigated, and for 19 States regarding crops irrigated and source of water. The inquiries for the census of agriculture for the 17 contiguous Western States, Louisiana, and Hawaii were as follows:

213. Of the total land in this place (reported in question 203), how many acres were irrigated this year? None ☐ Acres ☐
(If "None," mark X and skip to question 215.)

214. How many acres in this place were irrigated by sprinklers this year? None ☐ Acres ☐

215. From how many acres of irrigated land were crops harvested this year? None ☐ Acres ☐
(Be sure to include all irrigated land from which hay was cut and all irrigated land in both bearing and nonbearing fruit and nut crops and irrigated land from which volunteer crops were harvested.)
(If "None," mark X and skip to question 217.)

216. What part of the land from which crops were harvested this year was irrigated? All ☐ Part ☐
(If "All," mark X and skip to question 217.)

(If "Part," give below name and acres irrigated for each crop. If all orchard was irrigated, list "Orchard," and if all vegetables for sale, list "Vegetables.")

Name of crop irrigated?	Acres irrigated?	Name of crop irrigated?	Acres irrigated?
(1)		(3)	
(2)		(4)	

217. What percent of the irrigation water used on this place this year was obtained—

- (a) From a well (pumped or flowing) or spring directly by this farm or from another farm? %
(b) From a stream, lake, drainage ditch, or reservoir directly by this farm or from another farm? %
(c) From a mutual or cooperative water or ditch company, irrigation district, or other irrigation organization? (Give name below) %
(The total for questions (a), (b), and (c) must=100%.)

Name Name

The inquiries for the 30 remaining States (except Alaska) were as follows:

212. Of the total land in this place (reported in question 203), how many acres were irrigated this year? None ☐ Acres ☐

A special survey was made in 1960 for farms for which land irrigated was reported in the 1959 Census of Agriculture for these 30 States. This survey obtained information regarding source of water, method of irrigation, type of power used for pumping, crops irrigated, constructed reservoirs, and year irrigation was started. The results of this survey appear in Volume V, Part 2: "Irrigation in Humid Areas" of the reports for the 1959 Census of Agriculture.

Data regarding the irrigation operations were obtained from irrigation organizations. With few exceptions, the 1959 Census of Irrigation included only organizations which supplied water to two or more farms. This enumeration included the 17 contiguous Western States, Louisiana, and Hawaii. Three questionnaires were used in 1959 to enumerate irrigation organizations. These three forms requested the same basic information but differed according to the type of organization each was designed to enumerate. Facsimile copies of these questionnaires are shown in the appendix of this report. A more complete discussion of each questionnaire including its purpose, is given on page XVII.

History of census collection of irrigation data.—Inquiries relating to irrigation of farm and ranch lands in the United States have been included in each decennial census of agriculture beginning with 1890 and for each mid-decennial census of agriculture beginning with 1935. The 1890 general questionnaire for the census of agriculture, used in all States and territories, contained one inquiry to obtain the total acreage irrigated on each farm and another to obtain the number of artesian wells flowing. Other facts were obtained by direct correspondence and special schedules addressed to each irrigator. The 1890 report (Volume V of the Eleventh Census of the United States) presented a limited amount of irrigation data for 16 States or territories in the western part of the United States, listed, for discussion purposes, under two groupings, viz, arid region and subhumid region. The arid region embraced a part or the whole of 8 States—California, Colorado, Idaho, Montana, Nevada, Oregon, Washington, and Wyoming—and the whole of 3 territories—Arizona, New Mexico, and Utah. The subhumid region embraced parts of 5 States, viz, North Dakota, South Dakota, Nebraska, Kansas, and Texas. The statistics presented in the 1890 report showed 3,631,381 acres had been irrigated in 1889 on 54,136 farms. Irrigation of Indian reservation lands was not included.

In the 1900 Census of Agriculture, two inquiries relating to irrigation of farm and ranch lands were carried, for all States and territories. These two inquiries classified the number of acres irrigated in 1899 according to whether the irrigation water came from natural streams or from pumped or artesian wells. Statistics were presented separately, first, for three groupings of States and territories, viz, arid States which corresponded to the similarly designated grouping in 1890; semiarid States which, with the addition of Oklahoma, comprised the 1890 grouping under subhumid States; and the humid States. (See Volume VI, Part II, of the Twelfth Census of the United States.) The latter grouping, for the 1900 report, was made up of four New England States, the three Middle Atlantic States, and Florida. Irrigation carried out on Indian reservations was excluded. The 1900 report acknowledged that watering of market gardens, even those of considerable size, often was not reported as irrigation.

Recognition was taken of the fact that many acres of irrigated rice, except for Texas, had not been included in the totals for the three main groupings of States. (Rice irrigation in Texas really began about 1897, the industry receiving great impetus from the success of the planters in southwestern Louisiana.) Therefore, some separate data were presented in the 1900 report for irrigated rice farms in Alabama, Georgia, Louisiana, Mississippi, North Carolina, and South Carolina as well as for Texas. A few figures were presented for irrigated sugarcane, rice, and other crops produced in the Hawaiian Islands. The report for that year contained these observations in respect to rice. "The collection of statistics of irrigation in the Southern States, especially of those relating to the irrigation of rice, has been attended with many difficulties. In the coast counties rice is reported as grown with and without irrigation, and in many instances the yield per acre is nearly the same. To determine the extent of irrigation, correspondence with the planters was necessary, but . . . results are not satisfactory. The data concerning the large plantations

were quite fully reported, and upon these the census figures are based, no account having been taken of many small plantations growing rice from which no special reports were received."

A joint resolution of Congress, approved June 30, 1902, provided for the collection of data on irrigation for the crop year 1902. Questionnaires were mailed to irrigators reported in the 1900 Census of Agriculture and to officials of important canal companies. The statistics received by mail were supplemented by field work in a few States and by a limited amount of information from other sources. The data obtained were tabulated by drainage basins in order, so it was reported, that a better knowledge may be had of the extent of use of these waters. (See Census Bulletin 16, "Irrigation in the United States: 1902," published in 1904.) The 1902 Special Census included the same 11 arid States and territories, 6 semiarid States, 8 humid States, and 6 rice-growing States for which data were presented in the 1900 report. Irrigators in the Hawaiian Islands were not canvassed for the 1902 Special Survey of Irrigation.

Beginning with 1910, a special census of irrigation has been taken, decennially, in the United States. The law relating to the first of these special irrigation censuses provided that the inquiry should cover "the arid region of the United States." The "arid region" was held to include all sections of the United States where irrigation is commonly practiced in the growing of farm crops. The 1910 Special Census of Irrigation included the western part of the tier of States formed by the Dakotas, Nebraska, Kansas, Oklahoma, and Texas, and all States and territories between these States and the Pacific Ocean. Hawaii and the other insular possessions were not covered. Under a broad interpretation, the 1910 Special Census of Irrigation was extended to the rice-growing districts of Louisiana, Texas, and Arkansas. A special questionnaire pertaining to irrigation enterprises was prepared and the data were collected by special agents. This irrigation questionnaire was designed to secure more detailed information than was called for by the general questionnaire for the census of agriculture carried by the enumerators who were charged with collecting data in respect to individual farms and the population. The latter enumerators, in areas using water for irrigation, made use of a supplemental irrigation schedule. (See Volumes V, VI, and VII of the reports of the Thirteenth Census for irrigation data for 1910, from both the special irrigation census and from the general census.)

For 1920, the basic plan for gathering irrigation statistics provided that the census of agriculture enumerators, in all States, would obtain a few facts in regard to land to which water had been supplied, for agricultural purposes, by artificial means or by seepage from canals, reservoirs, or other irrigated lands. A cross (X) was required to be placed before the name of each crop irrigated. In the 17 most westerly States—Arizona, California, Colorado, Idaho, Kansas, Montana, Nebraska, Nevada, New Mexico, North Dakota, Oklahoma, Oregon, South Dakota, Texas, Utah, Washington, and Wyoming—and also in Arkansas and Louisiana, this same general class of enumerators were instructed to obtain an irrigation schedule for each enterprise supplying water to fewer than 5 farms. Special agents were employed to obtain, in the 19 listed States, irrigation schedules for the larger enterprises and, after the regular enumeration had been completed, for any small ones missed by the general census enumerators. After 1910, rice growing became quite important in California. Since the area devoted to that crop, in that State, is not geographically separated from other lands used for growing irrigated harvested crops or irrigated pasture, all data related to rice growing in the 19 listed States, were consolidated for the first time, in the Fourteenth Census reports with the data for other irrigated lands. (See Volume VII of the reports of the Fourteenth Census.)

The first mid-decennial census of agriculture was taken in 1925. No inquiries were made for the 1925 census to identify irrigated land or irrigated crops. In each subsequent mid-decennial census, some data in regard to irrigation have been obtained, though not necessarily published, for each State, in the general census of agriculture.

In the 1930 census, irrigation statistics were gathered in a manner closely similar to that followed ten years earlier. The census of agriculture enumerator, regardless of the State in which he was working, was required to obtain a few facts for irrigated cropland (not total irrigated land) and to identify any harvested crop wholly or partially irrigated. For each harvested crop, partially grown on dryland, provision was made to list separately the dryland acres and production. The census of agriculture enumerator, in the same 19 States covered in the 1910 and 1920 Censuses of Irrigation, was required to fill a relatively simple questionnaire for individual, partnership, and cooperative enterprises serving one to four farms. For enterprises of other types, and partnership and cooperative enterprises serving more than four farms, a more elaborate questionnaire and special enumeration procedure were used. United States Government enterprises were reported direct to the Bureau of the Census by the Commissioner of the Bureau of Reclamation and the Commissioner of the Bureau of Indian Affairs, the separate reports being prepared by local division or project engineers under the supervision of these officials. Reports for others of the group of larger enterprises were obtained by mail. The mail canvass preceded the work of the enumerators, which permitted census supervisors to detail conveniently located enumerators who had performed good work in reporting the smaller enterprises, to the enumeration of enterprises which had not already been covered by reports obtained by mail. Finally, such enterprises for which reports had been obtained neither by mail nor through the regular enumerators were canvassed by special enumerators. (See "Irrigation of Agricultural Lands," one of the 1930 Census of Agriculture reports.)

In the 1935 Census of Agriculture, only one inquiry in regard to irrigation appeared on the questionnaire for the general census of agriculture. This one question was designed to obtain the total acreage from which irrigated crops were harvested in 1934. (See Volume III of the 1935 Census of Agriculture reports for data for irrigation for all States.) The publication of irrigation data for each State, as presented in the summary report for the 1935 Census of Agriculture has been continued for each succeeding census. Sometimes all of the available data have been presented in the summary report for the census of agriculture while for other years, when a special census of irrigation was conducted, some of the data appear in the summary report for the census of agriculture and the remaining in the special report dealing with irrigation.

In the 1940 Census of Agriculture, the total acreage of land from which irrigated crops were harvested and the total acreage of irrigated land used only for pasture or grazing were secured in all States. In the 17 most westerly States and in Arkansas and Louisiana, the irrigated area was also obtained for many of the individual crops. No provision was made on the questionnaire for showing separately the total production of a crop harvested from irrigated land. However, the tabulation plan provided for a separation of the acreage and production of the farms reporting a crop wholly irrigated and of the farms reporting a crop wholly nonirrigated. A limited amount of data was also tabulated for irrigated farms in Florida. (See Volume I, Volume III, and "Irrigation of Agricultural Lands" of the 1940 Census of Agriculture reports for irrigation data obtained in the 1940 general census of agriculture; also see Volume III for some historical data beginning with those for 1890.) The special census of irrigation for 1940 was conducted in Florida in addition to the 19

States referred to above. In the 1935 Census of Agriculture, 2,751 farms in Florida had been recorded as having 65,832 acres of irrigated farm and ranch land in 1934. These were larger totals than shown for any State other than those included in the designated 18 irrigation States covered in several special censuses of irrigation. (In the 1940 report "Irrigation of Agricultural Lands," statistics were presented for 19 States as one group while those for Florida were summarized with any available data presented for the group of humid States.)

The questionnaire for the 1945 Census of Agriculture contained this inquiry: "Total land in this farm irrigated in 1944." Provision was made, in the reporting form for the 19 irrigation States, for the enumerator to identify, with a check mark, crops harvested from irrigated land. However data collected in the 1945 Census of Agriculture on irrigation were not published because of their incompleteness. (See page XXVII of Volume II of the 1945 Census of Agriculture reports.) The incompleteness seemed to be more general in areas where irrigation was not widely practiced. Later, after a review of the tabulated totals for each county and some editing to correct the most likely cases of incomplete enumeration, a six-page pamphlet was issued, presenting a comparison of 1945 and 1940 census totals. This special report gave county data for farms reporting irrigated land and acres of irrigated land. However, data for counties with less than 100 acres irrigated in 1944 were consolidated in each State under the heading "All other counties." In the 1950 summary report of the census of agriculture (see pages II, 62, and 63 of Volume II of the 1950 Census of Agriculture reports), the State totals for 1945 were published and are compared with data for prior censuses. In the 1950 Census of Agriculture, data were obtained on total land irrigated in 1949 and on acres irrigated by sprinklers. Additional data in respect to irrigation were obtained for 20 States, the 17 Western States, Arkansas, Louisiana, and Florida. The additional information obtained included a classification of the total irrigated land into four categories according to use, viz, irrigated cropland harvested, irrigated wild grass pasture, irrigated tame grass pasture, and irrigated cropland not harvested and not pastured; and information as to the specific crops irrigated and the supplier of the irrigation water. (See Volumes I, II, and III of the 1950 Census of Agriculture reports for these data.) In the 1950 Census of Irrigation, two questionnaires were used. One was used for the enumeration of irrigation enterprises operated by farms individually and the other for irrigation companies, districts, and other enterprises not operated by individual farms. The enterprises operated by individual farms were enumerated at the same time that the other census information for farms was obtained, by census of agriculture enumerators who receive special training for the enumeration of the irrigation enterprises. Enumeration of the irrigation enterprises that supplied 10 or more farms was accomplished in advance of the enumeration of the census of agriculture through the employment of specially qualified irrigation technicians—mostly professional employees of the Soil Conservation Service of the United States Department of Agriculture. Lists of enterprises serving 10 or more farms had been compiled, in part, from the reports collected in the 1940 Census of Irrigation. Another list, made currently while the census of agriculture enumeration was being conducted, was the principal source for the names of enterprises that supplied water for two to nine farms. These latter enterprises were enumerated by special enumerators trained and supervised by the irrigation technicians. (See Volume III: "Irrigation of Agricultural Lands" of the 1950 Census of Agriculture reports for statistics and their comparability with those from prior censuses.)

For the 1954 Census of Agriculture, several inquiries were used to obtain irrigation data in the 17 conterminous Western States and in Arkansas, Florida, Louisiana, and southeastern Missouri. For all of these areas, the inquiries related to the 1954 acreage

of irrigated land from which crops were harvested and the names of the crops for which the entire acreage harvested was irrigated in 1954. The area of irrigated pasture was also obtained except in Arkansas, Louisiana, and southeastern Missouri. In the remaining 27 States and Missouri except for southeastern counties in Missouri, the questionnaire called for only the total acres irrigated in 1954. For the 17 conterminous Western States and for Arkansas, Florida, and Louisiana, the published data included the total land in farms reporting irrigation, the land in farms classified by use, and, except for Arkansas and Louisiana, the irrigated portion of land in farms classified as to whether an irrigated crop had been harvested or the land had been used for pasture only. For these 20 States, data for irrigated and non-irrigated crops were published. For the other 28 States, the published data for irrigation were limited to the farms reporting and the total acres of land irrigated. (See Volumes I and II of the 1954 Census of Agriculture reports for all published data gathered on the 1954 questionnaire.) Because of increasing interest in the subject of irrigation in the humid areas, a special survey in cooperation with the United States Department of Agriculture was made in 1955 in the 28 Eastern States. (See Part 6 of Volume III, Special Reports, 1954 Census of Agriculture, for the kind of information gathered.)

Legal basis for the 1959 Censuses of Agriculture and Irrigation.—The 1959 Censuses of Agriculture and Irrigation were authorized by an Act of Congress, as were all similar prior censuses. "Title 13, United States Code—Census," codified in August 1954, and amended in August 1957 and September 1960, is now the legal basis for censuses of agriculture and other censuses, and surveys conducted by the Bureau of the Census. Section 142 paragraph (a) made provision for a census of agriculture and paragraph (b) for a census of irrigation. These sections read as follows:

- "142. Agriculture, Irrigation, and Drainage.
- (a) The Secretary shall, beginning in the month of October 1959, and in the same month of every fifth year thereafter, take a census of agriculture, provided that the censuses directed to be taken in October 1959 and each tenth year thereafter, may, when and where deemed advisable by the Secretary, be taken instead in conjunction with the censuses provided in Section 141 of this title. (Section 141 relates to the decennial censuses of population, unemployment, and housing to be taken as of the first day of April of each decennial year.)
- (b) The Secretary shall, in conjunction with the census of agriculture directed to be taken in October 1959 and each tenth year thereafter, take a census of irrigation and drainage."

PRESENTATION OF STATISTICS

The principal purpose of this report is to present all of the available data obtained in the 1959 Census of Irrigation. However, many of the data obtained in the 1959 Census of Agriculture are included so as to furnish more complete data not only for the Western States but also to bring together in one volume most of the data for all States and for the United States. This report also presents data obtained in previous censuses, both those for the census of irrigation and for the census of agriculture. Generally, the data from only one of these censuses are presented in a table. However, in a few cases, data from both censuses are in the same table.

Census of agriculture data.—Data from the census of agriculture are provided to indicate the extent of irrigation and to provide measures of the use of irrigation water for the production of various farm products. Summary table 1 shows, for each of the 50 States, exclusive of Alaska, the number of irrigated farms and the total area irrigated for the censuses of 1959, 1954, and 1950. Summary table 2 shows, for each of the 17 conterminous Western States and Louisiana, a classification of the land in farms according to use, as obtained in both the 1959 and 1954 censuses. Additional data are given for those farms, in each State, which reported all harvested crops as having been grown under irriga-

tion. Figures are given in summary table 2 for the two groups of irrigated farms (1) those which used any irrigation water and (2) a smaller but significant total for farms on which all crops were harvested from irrigated land.

A full analysis of census-collected irrigation data must take into account the kinds of individual crops to which water was applied; the proportion of the total acreage of each crop which was irrigated; the proportion of the total production which was grown under irrigation; and the average yields obtained with and without irrigation. Such data are given in summary tables 4 and 5. The first of these, summary table 4, provides a summarization by the kind of crops harvested in 1959 for 18 irrigation States, with available comparable totals for crops harvested in 1954. Figures are given, for many of the principal crops harvested, showing the number of farms which irrigated the entire acreage of a crop, with its acres, production, and value of production. These figures represent totals for farms on which all the crop harvested was irrigated.

The data for irrigated crops presented in summary table 4 do not represent the total acreage of the various crops irrigated. The data relate only to the acreage and production of crops on those farms on which the entire acreage of the crop harvested was irrigated. For example, if the total acreage of corn harvested on a farm were 40 and all 40 acres were irrigated, then the entire 40 acres of corn was included in the total for irrigated. However, if only 10 out of the 40 acres of corn harvested were irrigated, then the totals given in summary tables 4 and 5 do not include the 10 acres of corn irrigated. In such cases, the entire 40 acres of corn was included in the total for nonirrigated. However, data are given in summary table 3 showing the total acreage of each crop irrigated on farms where only part of the acreage in a crop was irrigated.

Census of agriculture data, as to total acres irrigated and acres irrigated from ground and surface sources, are included in summary tables 11 and 12 and in summary table 9.

Data for the census of irrigation are presented by States and by drainage basins. In some tables, data are presented by drainage basins within States. In the presentation of data when only a few organizations were serving within a State, State totals only are given. If only a few irrigation organizations operated in a given drainage basin, totals for the area are not shown separately but are combined with those for another basin. Somewhat similar procedures are followed in the presentation of data by type of organization or size of organization measured by total acre-feet of water conveyed.

The tables for individual States present data, on an intrastate basis, for each separately delineated drainage basin within a State. These basins may be minor basins, or submajor basins depending on the extent to which drainage basins within a State have been delineated for the purpose of presenting data. Totals are given for each grouping of basins into the next larger drainage basin unit and for the State. The tables containing totals for the

18-State area present data for larger drainage basin units on an interstate basis. Submajor drainage basins are the smallest unit for which data are shown. In both intrastate and interstate tables, if there were less than 3 organizations in one or more of the basins, combinations of the data were made so that the two basins together made a fairly homogeneous unit. In the intrastate tables for Colorado, data are given separately for the north and south parts of submajor basin IV-D.

Other published data.—Volume I of the reports for the 1959 Census of Agriculture contains for each State and for each county, detailed data on irrigation as follows:

County Table 1a.—Number, acreage, land in farms classified by use, acreage irrigated by sprinklers, irrigated farms classified by acres irrigated, and land irrigated by source of water.

County Table 11a.—Farms reporting, acreage, and quantity of crops harvested from irrigated land. Figures are given for acres and quantity harvested for farms for which the entire harvested acreage of the crop was irrigated. For farms on which only part of the harvested acreage of the crop was irrigated, figures are given for farms reporting and acres, but not for quantity harvested.

Census of irrigation data.—Census of irrigation data are presented for the States covered by the 1959 Census of Irrigation, i.e., for the 17 conterminous Western States, and Louisiana. Data are not given separately for Oklahoma, as only two irrigation organizations were recorded in that State. To avoid disclosure of individual operations, Oklahoma figures have been combined with those for Kansas.

Drainage basin data provide the basis for a comprehensive analysis of irrigation organizations and their characteristics and development as well as measures of the relative importance of the principal streams as sources of water supply. Therefore, the statistics were assembled by drainage basins, and such geographic areas are extensively utilized herein for data presentation. Since drainage basin boundaries do not usually coincide with State lines, figures may be presented either on an intrastate or an interstate basis. Some tables contain data compiled on both bases. Since the irrigated area in a drainage basin may have received water from another drainage basin, data are shown in three of the tables regarding the interbasin transfers of water.

For convenience of reference, the drainage basins by which the data are presented have been identified in the tables and on the maps by a uniform system of symbols. Major drainage basins are designated by Roman numerals, submajor basins (subdivisions of the major drainage basins) by capital letters, parts or tributaries of the submajor basins by Arabic numerals, and further subdivisions by small letters. Thus, the number II-D 5c represents the drainage basin of the Yuba River (subminor basin c) which is part of the drainage area of the Feather River (minor basin 5) which is a tributary of the Sacramento River (submajor basin D) which is part of the South Pacific Coast drainage basin (major basin II). Parts of basins designated as the basin "direct" include tributaries not shown separately.

LOCATION OF MAJOR DRAINAGE BASINS IN THE 17 WESTERN STATES AND LOUISIANA



LOCATION OF SUBMAJOR DRAINAGE BASINS FOR WHICH INTRASTATE TABLES ARE PRESENTED



LOCATION OF SUBMAJOR DRAINAGE BASINS FOR WHICH INTERSTATE TABLES ARE PRESENTED



Maps showing irrigated areas by drainage basins.—There is a series of maps available for each of the 17 Western States and Louisiana. These maps are approximately 3 feet by 4 feet in size and were prepared on a scale of about 16 miles on the ground to 1 inch on the map. These show the location of irrigated land by counties and by drainage basins and the acres irrigated by source of water, either ground or surface. One overall map, showing similar data for all of the 18 States, is also available. The acreage shown as irrigated within a drainage basin may not have received all of its water from sources within that basin as water from one basin may have been diverted and used in another basin.

The data used in the preparation of the maps for 1959 were obtained from both the census of irrigation and the census of agriculture. All figures for acreage are from the census of agriculture. The allocation of the acreage irrigated from organization sources between surface- and ground-water sources was made on the basis of the percentage of the water received in the

drainage basin, by all organizations, which came from ground and surface sources.

The number of dots for the State maps were calculated for each minor civil division or other county subdivision. The dots were plotted within the subdivision after an examination of United States Geological Survey topographic maps, maps of the Bureau of Reclamation projects, enumerator maps, and any other available information indicating the location of the irrigated land. After plotting, the dots were counted by drainage basins to determine the irrigated acreage from each water source for each drainage basin.

The acreage irrigated for counties having less than 500 acres irrigated is not shown on the maps. However, the table printed on the map does provide totals for the irrigated acreage in each drainage basin even though the data are not shown on the map for all counties.

In order that the figures presented for drainage basins may be more easily understood, three maps are given to show the general plan of both data and map presentation. One map shows the location of the major drainage basins in the 17 conterminous Western States and Louisiana. The second map shows the submajor drainage basins for which intrastate tables are presented and the third map shows the submajor drainage basins for which interstate tables are presented.

Identification of drainage basins.—The major and submajor basins and map symbols are as follows:

<i>Basin</i>	<i>Map symbol</i>
NORTH PACIFIC COAST:	
Excluding Columbia River.....	I-A
Columbia River.....	I-B
Below Snake River.....	I-C
Above Snake River excluding Yakima River.....	I-D
Yakima River.....	I-E
Snake River.....	I-F
Below Weiser, Idaho.....	I-G
Weiser to King Hill, Idaho.....	I-H
King Hill to American Falls, Idaho.....	I-I
Above American Falls.....	I-J
SOUTH PACIFIC COAST:	
Klamath River.....	II-A
Klamath River to Santa Maria River excluding Central Valley.....	II-B
Central Valley.....	II-C
Sacramento-San Joaquin Delta area.....	II-D
Sacramento River.....	II-E
San Joaquin River.....	II-F
San Joaquin Valley above San Joaquin River.....	II-G
Santa Maria River and South.....	II-H
GREAT BASIN:	
Northwest Great Basin.....	III-A
Humboldt River.....	III-B
South Central Great Basin.....	III-C
Bonneville Basin excluding Bear River.....	III-D
Bear River.....	III-E
GULF OF CALIFORNIA:	
Excluding Colorado River.....	IV-A
Colorado River:	
Colorado River below Lees Ferry, Arizona:	
Excluding Gila River.....	IV-B
Gila River.....	IV-C
Colorado River above Lees Ferry:	
Excluding Green and Gunnison Rivers.....	IV-D
Green River.....	IV-E
Gunnison River.....	IV-F
GULF OF MEXICO EXCLUDING MISSISSIPPI RIVER:	
Excluding Rio Grande and Mermentau River.....	V-A
Rio Grande:	
Rio Grande below Fort Quitman, Texas.....	V-B
Rio Grande above Fort Quitman.....	V-C
Mermentau River.....	V-D
MISSISSIPPI RIVER:	
Excluding Arkansas and Missouri Rivers.....	VI-A
Arkansas River.....	VI-B
Missouri River: Below Three Forks, Mont., excluding Platte and Yellowstone Rivers.....	VI-C
Platte River:	
Excluding South Platte River.....	VI-D
South Platte River.....	VI-E
Yellowstone River:	
Excluding Bighorn River.....	VI-F
Bighorn River.....	VI-G
Missouri River headwaters above Three Forks, Montana.....	VI-H
HUDSON BAY (Red River of the North).....	VII

ENUMERATION FORMS AND PROCEDURES

Introduction.—The primary purpose for the formation of an irrigation enterprise, organization, or system is to obtain water from natural sources and deliver it to water users. Under a broad interpretation, a system could include a formal or informal co-operative undertaking or a single enterprise. Water may come from ground sources or from surface sources. In many areas it is necessary to store water from melting snow or winter rain in order to have a more adequate supply during the growing season.

Most commonly, the water is stored in a reservoir behind a dam built across the stream which furnishes the water. Occasionally, a more economical location for water storage is off the stream which supplies the water and an off-stream reservoir has been constructed.

Medium and large-size irrigation systems will necessarily have one or more main canals or pipe lines to convey water to the area to be served, commonly using gravity flow. Main canals may deliver water to smaller canals, usually called laterals, which carry the water to a group of water users located along the lateral.

Many enterprises which deliver water for the irrigation of farm and ranch land perform other functions. These may include the generation of electric power, flood control, artificial drainage of lands, and the delivery of water for other uses. These other uses may be divided into two groups. The first group includes: Domestic and residential users, including lawn and garden watering; municipal water supply; water for industrial purposes; livestock watering; and water spreading for the recharge of ground-water supplies. The water involved in these uses and for the irrigation of farm and ranch lands must be taken from streams or other natural sources. These are the uses for which information was obtained in a census of irrigation, on water delivered by irrigation enterprises.

The other group of water uses for which water is delivered includes power generation, streamflow regulation for navigation, waste dilution, and for fish and wildlife. The water involved in this group either is not taken out of streams or, after diversion, is returned without any substantial loss in quantity. The census of irrigation has not been concerned directly with this second group of water uses.

The 1959 Census of Irrigation was concerned with finding out the amount of water taken from natural sources by irrigation organizations; accounting for the transfers between the organizations which had a part in water conveyance or delivery; and determining how much was delivered to farms, how much was lost along the way, and how much was delivered for uses other than irrigation of farm and ranch lands. The 1959 Census of Irrigation did not ascertain data in respect to the conveyance loss and use of water by an individual farmowner or operator.

The various organizations which depend on one another for the receipt or delivery of water are referred to as "related organizations." They may be quite independent in ownership and management, but they are related in the sense that water is transferred from one organization to another as it moves from its source to the individual user. These related organizations present special problems in their enumeration. An organization which operates facilities in more than one drainage basin also presents problems for enumeration.

In the period since the first census of irrigation there have been changes in the techniques and organization of irrigation water supply, in the kind of information needed, and in the type of data which can be reliably and economically obtained by census procedures. In recognition of such changes, each census has incorporated some modifications from its predecessor. The 1959 forms and procedures and the major changes made for the 1959 Census of Irrigation as compared with that of 1950, are outlined in this section. The effect of these changes will be indicated in more detail in the section on "Definitions and Explanations."

Organizations included.—For 1959 Census of Irrigation, an irrigation organization was defined as a group of two or more water users, a company, or a governmental district or agency that operated facilities to supply water for irrigation of farm and ranch lands. It may have been either a formal, legal organization or an informal or cooperative arrangement. The facilities of an organization were not required to supply water directly to farms but the water stored or conveyed had eventually to serve 2

or more farms. The organizations enumerated in 1959 correspond closely to the "multiple-farm enterprises" for the 1950 census.

In the 1950 and earlier censuses of irrigation, special questionnaires were also obtained for those farms which operated their own supply works to bring water to the farm, either from natural sources or from a canal or pipeline of an irrigation organization (if located more than a mile from the farm boundary, or if a pump were required to lift the water from an irrigation canal to the farm). The 1950 questionnaire did not, however, cover the process of conveying and distributing the water on the individual farm. Thus, a farm which operated a pump to lift water from an irrigational canal was regarded as an irrigation enterprise for the supply of water to two or more farms, and a special questionnaire was obtained. But a farm which received water by gravity from a canal was not regarded as an irrigation enterprise, even though it may have operated expensive works for the distribution of water on the farm.

Elaborate facilities for distributing and applying irrigation water on the farm are now more common than when the first census of irrigation was taken, and thus there has been an increasing investment by farmers in land leveling, distribution systems, sprinklers, etc. From the point of view of the farm economist or the equipment supplier, the facilities for the conveyance and application of water on the farm may be as important as those operated to bring water to the farm. This fact has influenced the kind of information collected in the census of irrigation. It has become more difficult for farmers and census enumerators to report cost and other information for works operated to bring water to the farm, separately from that for facilities for distribution and application on the farm. This is especially true when the same pump is used to obtain water from a well or canal and also to provide pressure to pipelines or sprinklers on the farm. However, the inclusion of on-the-farm-irrigation operations in the census of irrigation would greatly increase the cost of data collection. In 1950 the collection of 298,000 questionnaires would have been required for coverage of irrigation facilities on all irrigated farms in the 20 States. Because of costs, data on irrigation facilities on individual farms were not collected in connection with the 1959 Census of Irrigation.

As a result of the exclusion of irrigation enterprises providing water to only one farm from the 1959 census, the definition of water delivery by multiple-farm irrigation enterprises directly to farms was altered for application in 1959. In the 1950 census, if a farm operated more than a mile of canal, or if it used a pump to bring water to the farm from a canal or pipe operated by a multiple-farm irrigation enterprise, then the farm-operated supply works were considered to be an irrigation enterprise apart from the farm itself. In such a case the multiple-farm enterprise was not considered to deliver water directly to a farm but rather to another irrigation enterprise (a single-farm enterprise) which in turn delivered water to the farm. In 1959, however, any delivery by a multiple-farm enterprise to works operated by a single farm was considered to be water delivered directly to a farm.

Because the 1959 Census of Irrigation was confined to irrigation organizations, omitting individual farm water supply systems, Arkansas and Florida, which have few irrigation organizations, were not included in the census. These two States were included in the 1960 Survey of Irrigation in Humid Areas.

Questionnaires.—Three questionnaires, designated I-1, I-2, and I-3, were used to enumerate irrigation organizations in the 1959 Census of Irrigation. Each of these asked for essentially the same kind of information. They differed only in their adaptation to the peculiarities of the type of organization each was designed to enumerate. The I-1 form was used to enumerate organizations which operated facilities within one drainage basin and neither received any water from another organization nor

delivered water to another organization. The I-2 questionnaire was used to cover the operations of those organizations which operated facilities entirely within one drainage basin but which obtained part or all of their water from another organization and/or delivered part or all of their water to another organization. The I-3 reporting form was utilized to enumerate organizations which operated facilities in more than one drainage basin and also to enumerate some organizations which operated large off-stream reservoirs. (Facsimile copies of these three questionnaires are included in the appendix.) Whenever irrigation water was transferred in canals, pipes, or tunnels from one drainage basin to another, the organization in whose facilities it crossed the boundary was considered as an interbasin organization.

The questionnaires contained inquiries to ascertain the legal type of organization; the number of water users served—farm, residential, and others; the number of acres served and the number of acres actually irrigated; the amount of water obtained by source; the amount of water disposed of by type of disposition; whether or not the land served by the organization received water from other sources; and the amount of new capital investment since 1950. Other questions were included, some of which enabled the enumerators to determine whether or not the organization reporting met the definition of an irrigation organization, and some of which gave information useful in the checking of other data reported on the questionnaires.

The I-1 questionnaire did not include inquiries for reporting deliveries of water to other organizations, although it did include questions to determine whether or not such deliveries should have been reported. The I-1 questionnaire also made provision for the respondent to report water quantities in units other than acre-feet. The respondent could report either in volume units or flow units in accordance with the way he kept his records or was accustomed to measuring water.

The I-2 questionnaire did provide inquiries to ascertain inter-organization transfers. A separate worksheet was furnished the enumerator for use in making entries on the I-2 questionnaire in converting water quantities reported in volume units other than acre-feet, or in flow units, to acre-feet.

The I-3 questionnaire used for the enumeration of all interbasin organizations, provided for the accounting of all water obtained and disposed of by drainage basins. Transfers between basins were reported. The I-3 questionnaire was also used to enumerate organizations which reported the use of off-stream storage.

The questionnaires for the 1959 Census of Irrigation were prepared by the Bureau of the Census. Two special committees provided advice and counsel. A Special Federal Agency Committee, for the 1959 Censuses of Irrigation and Drainage, comprised representatives of the following United States agencies: Agricultural Conservation Service, Agricultural Research Service, Rural Electrification Administration, and Soil Conservation Service of the United States Department of Agriculture; and the Bureau of Indian Affairs and the Bureau of Reclamation of the United States Department of the Interior.

A second committee, the Special Advisory Committee for the 1959 Census of Agriculture, reviewed the later stages of the planning. This committee consisted of one representative from each of the following: Agricultural Publishers Association; American Association of Land Grant Colleges and State Universities; American Farm Bureau Federation; American Farm Economic Association; American Statistical Association; Farm Equipment Institute; National Association of Commissioners, Secretaries, and Directors of Agriculture; National Council of Farmer Cooperatives; National Farmers' Union; National Grange; Rural Sociological Society; and the U.S. Department of Agriculture. A representative of the Bureau of the Budget was in attendance at all meetings of this committee.

Enumerator drainage basin maps.—Inasmuch as census data were to be published by drainage basins, it was important that the drainage basin location of each irrigation organization be determined. Each enumerator was supplied with a set of county highway maps for his enumeration area, on which the boundaries of the drainage basins had been traced. Each drainage basin was given a code number. The 1950 drainage basin location of each organization was provided to the enumerator on his control list of organizations. As each organization was enumerated the drainage basin location was checked on the maps. Steps, which will be described later, were taken during the processing operations to provide the drainage basin location of organizations submitting reports by mail.

The enumeration.—The enumeration of the irrigation organizations, for the 1959 Census of Irrigation, was accomplished during December 1959, and January, February, and March 1960. The reports covered water supply activities during the 1959 calendar year. In case water was delivered in the winter months, and the organization's records were kept on a fiscal year basis, the fiscal year figures were accepted if the fiscal year ended within three months of the end of the 1959 calendar year. Data pertaining to the expenditures for works and equipment were reported for the ten-year period, January 1, 1950, through December 31, 1959.

Prior to the beginning of the enumeration, lists of irrigation organizations were compiled from the records of the 1950 census and from information supplied by the Bureau of Reclamation, Bureau of Indian Affairs, and various State agencies. The organizations were classified, on the basis of available information, into interbasin organizations, interrelated organizations, and nonrelated organizations. Interbasin organizations included those with operations in more than one basin, interrelated organizations comprised those that received or delivered water to another organization, and unrelated organizations included all other organizations. The classification of individual organizations was made usually on the basis of information obtained from the 1950 questionnaires.

Questionnaires were mailed to the nonrelated organizations with a letter requesting that they be filled out and returned to the Agriculture Operations Office of the Bureau of the Census in Parsons, Kansas. Questionnaires were also mailed to interrelated and interbasin organizations to give these organizations advance notice of the enumeration and allow them sufficient time to prepare the information for their reports before an enumerator called.

The area of the 18 States in which the irrigation census was conducted, was divided into 80 enumeration districts in accordance with the number of organizations to be enumerated, the distribution of the organizations, and travel conditions in the area. Approximately 80 enumerators were selected from among the crew leaders, who had worked on the 1959 Census of Agriculture. These enumerators were given a two-day training course in irrigation enumeration procedures and in the use of the Irrigation questionnaires.

Each enumerator was given a "field control card" for each organization to be enumerated in his area. These control cards included those for all the interrelated organizations and also those nonrelated organizations which had not submitted a report by mail.

The enumerators were instructed to enumerate all the interrelated organizations in their area, including any unlisted organizations which might be related to organizations they enumerated, except interbasin organizations. Each enumerator was notified of the receipt, by mail, of completed questionnaires from the nonrelated organizations in his area. He was instructed to enumerate all organizations for which he had not received such a notice.

Three special enumerators were recruited for the enumeration of all interbasin organizations. These enumerators were agriculture economists from the Land and Water Branch of the Farm Economics Research Division, Agriculture Research Service, U.S. Department of Agriculture. They were trained by the irrigation economist in charge of the census of irrigation.

Reports for projects operated by the Bureau of Reclamation and the Bureau of Indian Affairs of the Department of the Interior were prepared by the respective bureaus.

Special provision was made to insure the enumeration of irrigation organizations not on any control list. Each farm operator who received irrigation water from an irrigation organization was asked, on the 1959 Census of Agriculture questionnaire, to report the name of the organization or organizations from which water was received. During the processing of the census of agriculture questionnaires, a transcription card was prepared the first time each organization's name appeared. These cards were checked against the listing of the organizations supplied to the enumerators. Reports for unlisted organizations were obtained either by mail or by the enumerators.

PROCESSING OPERATIONS

Completion of enumeration.—As irrigation questionnaires were received by mail from the irrigation organization in the Agriculture Operations Office in Parsons, Kansas, the date of receipt was posted on the control list for irrigation organizations. Likewise, as an enumerator completed his assignment in a county, he forwarded the completed questionnaires to the same processing center. A check was then made of the control list for the county to ascertain the degree of completion of the enumeration in the county.

Preliminary checking.—All irrigation questionnaires, whether received directly from irrigation organizations or from enumerators, were subjected to a preliminary checking to determine whether or not they were satisfactorily filled. To be considered satisfactory, dependance was placed primarily on the extent to which "quantity of water" information was furnished in relation to the number of acres served by the organization. If the organization served less than 500 acres, its report was considered satisfactory when the number of acres irrigated and the number of farm water users was reported and the source of water indicated. If the organization served 500 or more acres, its report was considered satisfactory only if the actual quantity of water obtained was reported or if the report contained information which would make possible a reasonably accurate estimate of the quantity of water. The questionnaires of interrelated organizations were checked to make sure the interorganization transfer quantities were in reasonable agreement.

Questionnaires which were considered unsatisfactory were returned to the enumerator with a memorandum containing instructions for obtaining the additional information needed.

Editing and coding.—Each questionnaire was edited and coded before the information was transferred to punchcards and tabulated. The questionnaires were arranged for editing into 3 groups—nonrelated, interrelated, and interbasin.

Questionnaires which did not represent an irrigation organization in accordance with the census definition were eliminated. Questionnaires eliminated included those reporting organizations providing water to less than 2 farms, reports for organizations serving only residential water users, and reports for organizations which did not operate water supply facilities in 1959.

In the editing process, all questionnaires were examined for errors, omissions, and inconsistencies. Among the specific items subjected to checking were the following:

a. Farm water users served: The relationship between number of farm water users, the acres served, the area irrigated, and the quantity of water delivered were checked to be sure they were reasonable.

b. Residential or other water users served: The number of residential or other water users was checked with the quantity of water delivered to see that the relationship was reasonable.

c. Water obtained and disposed of: Checks were made to insure that the quantity of water received was equal to the quantity of water disposed of.

d. Conveyance loss: A report regarding conveyance loss was necessary unless a satisfactory explanation was given as to why there was no conveyance loss.

Obvious errors in calculations and in units of measure and misplaced entries were corrected as found. Entries not clearly legible were rewritten. Questionnaires containing major inconsistencies and omissions were referred to irrigation technician for review. The technician corrected the questionnaires, either on the basis of information reported for other organizations in the area or on the basis of additional information received in response to letters directed to the organization.

A water quantity reported in a unit, other than acre-feet, was converted to acre-feet. Estimates for quantity of water were made when required for organizations which reported less than 500 acres of land irrigated. These estimates were made on the basis of information reported for other organizations of similar type in the area. In the case of the interrelated organizations, interorganization transfers of water were compared and discrepancies corrected. Discrepancies of less than 300 acre-feet between reports of two interrelated organizations were corrected by the clerks, in accordance with the following rules:

1. If only one organization reported the transfer of water, the transfer was cancelled and the other figures in the questionnaire were adjusted to make water obtained equal to water disposed of.

2. If both organizations reported the transfer but the amounts differed by a quantity of less than 300 acre-feet and one of the organizations reported measuring its water while the other did not, the report of the organization making measurements was accepted. If neither organization measured the water, each report was adjusted by an amount equal to one-half the difference.

Discrepancies between the reports of two interrelated organizations of 300 or more acre-feet, for water transferred, were referred to an irrigation technician. Discrepancies of 300 to 999 acre-feet were corrected by the technician on the basis of other information on the questionnaires. In all cases of discrepancies of 1,000 acre-feet or more, letters were sent to the respondents of both organizations pointing out that a discrepancy did exist although not revealing the quantity and asking that the reported figures be reviewed, and any necessary corrections be made. In nearly all cases the replies to these letters contained information which made possible the correction of the two reports.

The drainage basin location of organizations which reported by mail was supplied on the basis of information from the 1950 irrigation questionnaires. For organizations which were not enumerated in 1950, or for which there was any question about the drainage basin in which located, the information given on the questionnaire as to the location of the sources of water, or the land irrigated, was checked against the drainage basin maps to determine the drainage basin in which the organization was located.

The questionnaires of all interbasin organizations were edited and coded by irrigation technicians, in accordance with the same rules used for questionnaires for interrelated organizations. To facilitate tabulations, a questionnaire was prepared for each basin. Thus, if an organization operated in three drainage basins, three questionnaires were prepared, one for each basin in which it operated.

During the coding operation each irrigation organization was assigned a code to indicate (1) drainage basin in which located, (2) the legal type of organization, (3) whether or not water from other sources was used on the same land served by the irrigation organization, and (4) the amount of water delivered to farm users per acre irrigated by the organization.

Tabulation of data.—After the questionnaires were edited and coded, the information was punched into tabulating cards. One card only was required for each questionnaire. A tabulation was made for each individual drainage basin. Totals were obtained for the additive information on the cards for each drainage basin. This tabulation was examined by the irrigation technician for reasonableness and consistency. After the review and correction of this tabulation another tabulation was made, by type of organization for submajor drainage basins and States. This tabulation was reviewed for reasonableness and consistency, before the remaining tabulations were made.

DEFINITIONS AND EXPLANATIONS

The definitions and explanations which follow relate mostly to those 1959 items considered to be inadequately described in the tables.

Irrigation defined.—The term "irrigation," as herein used, refers to the application of water, by artificial means, to land being used for agricultural purposes. These artificial means include subirrigation as well as application of water to the ground surface either by general flooding, by basins, and by furrows, or less directly through the use of sprinklers.

Irrigated land.—Irrigated land includes any land in farms (and ranches) to which water was applied in the year covered by the enumeration. Irrigation may have been used for producing a harvested crop, for pasture or grazing lands, for cultivated summer fallow, or for land planted to a crop intended for future harvest. Land flooded for rice cultivation was considered as irrigated. Land flooded during high water periods was to be included as irrigated only if water was diverted to agricultural lands by dams, canals, or other works. The definition of irrigated land specifically excluded land where the water table or the natural level of the ground water was controlled by drainage works with no additional water brought in by canals or pipes.

Census definition of a farm.—For the 1959 Census of Agriculture, the definition of a farm was based primarily on a combination of "acres in the place" and the estimated value of agricultural products sold.

The word "place" was defined to include all land under the control or supervision of one person or partnership at the time of enumeration and on which agricultural operations were conducted at any time in 1959. (For definition of "agricultural operations," see p. ix of the Introduction to volume II of the reports for the 1959 Census of Agriculture.) Control may have been exercised through ownership or management; or through a lease, rental, or cropping arrangement.

Places of 10 or more acres in 1959 were counted as farms if the estimated sales of agricultural products for the year amounted to at least \$50. Places of less than 10 acres in 1959 were counted as farms if the estimated sales of agricultural products for the year amounted to at least \$250. Places not meeting the minimum estimated level of sales in 1959 were nevertheless counted as farms if they could normally be expected to produce agricultural products in sufficient quantity to meet the requirements of the definition. This additional qualification resulted in the inclusion as farms of some places that were engaged in farming operations for the first time in 1959, as well as places affected by crop failure or other unusual conditions.

Land in farms according to use.—Land in farms was classified according to the use made of it in 1959. The acreage in each farm was allocated among the various land-use categories only once, and any acreage that had two or more uses during the year was classified according to its most important use.

Cropland harvested.—This includes land from which crops were harvested; land from which hay (including wild hay) was cut; and land in small fruits, orchards, vineyards, nurseries, and greenhouses. Land from which two or more crops were harvested was to be counted only once. The entry for cropland

harvested was obtained directly from the farm operator and then verified by the census enumerator by adding the acreages of each crop reported and subtracting from this total the acres of land from which two or more crops were harvested. This checking was repeated during the office processing for farms with 100 or more acres of cropland harvested. The enumerator was directed to list only under "Cropland harvested" any acreage that had additional uses during the year. For instance, any land from which hay was cut was classified as cropland harvested, regardless of the use of land for grazing later in the year.

Cropland used only for pasture.—The enumerator was instructed to include all land used only for pasture or grazing that could have been used for crops without additional improvement, and all land planted to crops that were hogged off, pastured, or grazed before reaching maturity. In the census of 1954 the enumerators were instructed to report rotation pasture and all other cropland used only for pasture as cropland used only for pasture.

Cropland not harvested and not pastured.—This class includes cultivated summer fallow, cropland used only for soil-improvement crops, land on which crops failed, land planted to crops for harvest after the year covered by the census, and idle cropland. The data for this class for 1959 were obtained through the use of two inquiries in some States and three in other States as follows:

Cultivated summer fallow.—This land use was obtained for the 17 Western States in the conterminous United States. The acreage of cultivated summer fallow is negligible in those States where the inquiry was not included on the questionnaire. For the censuses of 1959, 1954, and 1950, cultivated summer fallow was defined as cropland that was plowed and cultivated but left unseeded to control weeds and conserve moisture. Separate data are not available for 1945 and earlier censuses.

Cropland used only for soil-improvement crops.—Only land used for cover crops, to control erosion or to be plowed under for green manure and planted to another crop, fell into this category. A large proportion of this land was covered by contracts of the Soil Bank. The enumerator was cautioned not to include land from which crops were harvested in the census year or land that was pastured or grazed. There was no separate inquiry for Alaska and Hawaii. In these two States cropland used only for soil-improvement purposes was included under other cropland not harvested and not pastured.

Other cropland not harvested and not pastured.—All cropland except cropland harvested, cropland in cultivated summer fallow, cropland pastured, and land used only for soil-improvement crops was included in this land-use class. This total included all acreage on which crops failed because of drought, floods, insects, etc.; acreage not harvested because of low prices or labor shortage; acreage not harvested but occupied by growing crops intended for harvest in later years; acreage which had been plowed, and could be plowed again without first clearing away brush, but which had been idle for one or more years.

Woodland pastured.—This includes all woodland that was used for pasture or grazing during the census year. According to instructions, woodland refers to woodlots and timber tracts, natural or planted.

Woodland not pastured.—The enumerator was instructed to include in this category land in the Soil Bank planted to trees.

Other pasture.—All land, other than woodland and cropland, used for pasture or grazing was designated other pasture.

Improved pasture.—A pasture that had been limed, fertilized, seeded, irrigated, drained, or cleared of weeds or brush was to be considered improved pasture.

All other land.—This item refers to all land not included in any of the preceding land-use items and includes land occupied by a house or other buildings; lanes, roads, and ditches; and land area of ponds and wasteland. Unusually large tracts of other land held primarily for purposes other than agriculture were excluded from the tabulations.

In summary tables 6 and 11, the "total acres irrigated in census year" is shown for 1959 and 1949. The 1959 data were obtained in the general census of agriculture while those for 1949 were obtained in the 1950 Census of Irrigation. The most useful comparison of drainage basin totals was made possible only by using data from the two sources. Data in respect to the number of irrigated farms and acreage of irrigated land collected in the census of agriculture are more accurate than those collected in the census of irrigation. The 1950 Census of Agriculture data were not apportioned to drainage basins. However, the 1950 Census of Irrigation acreages, through a process of reconciliation,

were brought into reasonable agreement with the 1950 Census of Agriculture irrigated acreage. (See page XXIV for a discussion of the method used in 1950 to reconcile census of irrigation data with similar data gathered in the census of agriculture. See also "Area reported irrigated by organizations" on page XXI.) The State totals for 1959 correspond with those reported in volume I of the reports for the 1959 Census of Agriculture.

Irrigated farms.—All farms with any land irrigated in 1959 are counted as irrigated farms. The extent of irrigation on any particular farm could have ranged from an adequate and timely supply of water for all crops and pasture to an inadequate supply of water with the result that the crop irrigated was not worth harvesting or it was harvested for a purpose different than the purpose for which it was planted.

If, from the total number of irrigated farms, as shown in summary table 1, the number of farms reporting irrigated cropland harvested is subtracted, the resulting difference represents those irrigated farms which had no irrigated harvested crops. These farms could have had irrigated pasture (any kind of pasture land which was not used for crop production in the census year), land planted to an irrigated crop intended for future harvest, land in cultivated summer fallow, land which was irrigated in the census year and was being prepared for seeding a crop for harvest in a later year, and land in a crop which was irrigated in the census year but which was a complete failure.

Irrigation organization.—An irrigation organization is a business comprising a group of two or more water users, a company, a corporation, or a governmental district or agency that operates facilities to supply water for the irrigation of farm and ranch lands. It may be either a formal, legal organization or an informal or cooperative arrangement. To be included in the census of irrigation two or more farm water users had to be served by the water which was stored or conveyed by the facilities of an organization but these water users did not have to be served directly. Thus, if a storage reservoir released water into a stream channel which was picked up downstream by another organization which served two or more farms, the organization which owned the reservoir qualified as an irrigation organization. Likewise, if all the water of one organization was received into facilities of another organization, both were included as irrigation organizations provided two or more farm water users were served. In the first example, the reservoir would be included as an organization which did not convey water.

An organization was included in the census, if any of the water stored or conveyed in its facilities was used for farm irrigation even though irrigation was not the main purpose of the organization. Organizations which did not operate water supply works, in 1959, because of water shortage or other reasons were not included.

An irrigation system operated by a single farm primarily to supply water for that farm was not counted as an irrigation organization, though it may have supplied water to one or more other farms. (In 1950, a total of 105,254 single-farm irrigation enterprises were reported in the 18 irrigation States, and they supplied water to 7,125 other farms.) However, if a ditch, pump, or other works which supplied water to two or more farms (or water users) was operated as a cooperative undertaking of two or more farmers or water users, it was included as an irrigation organization. The determination as to whether a small irrigation system serving two water users is operated by one of them or by both jointly is difficult in some cases, particularly if the two water users have such relationships as landlord and tenant, or father and son. The determination of whether the persons providing water to two or more water users qualified as an irrigation organization may not always be made in a uniform basis from census to census; and thus, part of the change in the number of irrigation organizations may be the result of differences in determination of whether the organization meets the criteria

for inclusion in the census of irrigation. Changes in the number of organizations from census to census may arise from changes in the number of farm operators for the same land irrigated without any change in water supply facilities. For example, an irrigated tract of land may comprise three farms for one census and only one farm at another census because of the consolidation of farms.

Only organizations which divert, pump, store, or convey water used, at least in part, for irrigation are included. Water-user organizations which provide information or technical assistance and which represent the interest of water users, promote water development, etc., but do not operate any water supply facilities are excluded.

Many of the larger irrigation organizations deliver water by main supply canals to lateral ditches which are maintained by the water users served. The water users on each lateral may be more or less formally organized to perform any maintenance work required, or to hire such work performed. In some areas, it is the custom for each water user, individually, to maintain the portion of the ditch adjoining his property, without any joint action by the water users as a group. In most cases payments to the main supply organization are made by the water users individually, while in others a lateral organization makes the payment. The instructions to enumerators in 1959 provided that a group of water users operating a lateral ditch were to be considered as a separate organization if either (a) water was obtained from more than one source—that is, from another organization, or directly from a natural source as well as from another organization—or (b) the group collected payments from water users. If all water was obtained from another organization, and no cash payments were collected by the lateral, then the lateral was not to be considered as a separate organization and the water users and land were considered to be served directly by the organization from which the water was obtained.

The procedure for counting laterals did not affect the total acreage reported as irrigated by irrigation organizations although, in some areas, it may have affected significantly the number of mutual unincorporated organizations counted and the acreage served directly by each type of organization. If an irrigation district supplied water to laterals operated as unincorporated mutual organizations, the water users and land were tabulated as served directly by mutuals. If the laterals did not qualify as separate irrigation organizations, however, the water users and land were considered to be served directly by the irrigation organization delivering the water. These same criteria for the enumeration of laterals were generally followed for the 1950 census.

The definition of "irrigation organization" used for the 1959 census is essentially the same as that of "multiple-farm enterprise" used in the 1950 census.

Farm area reported served by organizations.—Farm area served is defined as the area for which farm water users were entitled to receive water in 1959. Land which may have been irrigated in some year previous to 1959, but was not irrigated in 1959, was to be included.

Area reported irrigated by organizations.—Each irrigation organization was asked to report the number of acres actually irrigated in 1959 with water from the organization. Acres irrigated were counted only for the organizations delivering water directly to farm distribution systems. Land eligible to receive water directly (i.e., delivered to farm distribution systems from two organizations) was reported by each, however, and hence is counted twice. The total acres irrigated, as reported by irrigation organizations, often provides an overstatement of the acres actually irrigated. Although defined the same as acres irrigated by multiple-farm enterprises in 1950, the figures reported in the 1959 Census of Irrigation are not strictly comparable with

those shown for the 1950 Census of Irrigation because the checking of reports for the 1950 Censuses of Irrigation and Agriculture resulted in the elimination of most of the overstatement of the acres irrigated by irrigation organizations for 1950.

Water users served, total.—A water user is defined as any person or organization, which received water for use on a farm, in a business, or in or around a home. Organizations reporting by mail were not provided with a definition; therefore, the number of water users reported depends on the interpretation of "water user" by the organization.

Farm irrigation water users.—A farm irrigation water user is one who received water for irrigation and who had ten or more acres of land from which in 1959 at least \$50 worth of agricultural products were sold, or if he had less than 10 acres at least \$250 worth of agricultural products were sold in that year. Users having smaller acreages of land or smaller sales were counted as residential or other water users. This definition was provided only to irrigation enumerators, and was not given to irrigation organizations submitting reports by mail. Although the definition corresponds to that of a census farm, it was recognized that irrigation organizations would be unable to determine which of the water users met the criteria, especially if the service area included many small tracts. Moreover, in some cases, a water user as shown by the records of the irrigation organization, may rent or lease all the acreage he controls to another person and hence not qualify as a census farm for the census of agriculture. The number of farm water users, as obtained in the census of irrigation, often exceeds the number of farms receiving water from irrigation organizations, as reported in the 1959 Census of Agriculture.

Residential water users.—A residential or domestic water user is one who received water for household use and/or to water lawns, flowers, shrubs, and vegetable gardens, but who did not sell enough products to qualify as a farm.

Other water users.—Other water users include industrial plants; recreational activities, such as golf courses; public institutions; etc.

Source of water.—The basic data in regard to irrigation water supplies—from either ground or surface sources—was obtained in the 1959 Census of Agriculture. The agriculture questionnaire contained an inquiry regarding the proportion of the irrigation water used on each farm from ground-water, surface-water, and irrigation-organization sources. Ground-water sources include wells (pumped or flowing) and springs; surface-water sources include streams, lakes, reservoirs, and sewage and drainage ditches. The percentages reported for each source were multiplied by the total area irrigated on each farm, during the office processing of the agricultural questionnaires. An allocation, between ground- and surface-water sources, was made of the water received by farms directly from irrigation organizations. This was accomplished as follows:

1. The irrigated acreage computed for ground, surface, and irrigation-organization sources as shown by the census of agriculture was totaled for each county.

2. The quantity of water received from ground and surface sources as reported by irrigation organizations was tabulated for each drainage basin.

3. The calculated acres of land irrigated by irrigation organizations as shown by data from the census of agriculture was placed on a map with county and drainage basin boundaries. If the county were entirely within a drainage basin, then the acres irrigated from ground and surface sources by irrigation organizations were allocated by multiplying the acres irrigated by the percentage of water irrigation organizations obtained from ground and surface sources in the drainage basin. If only a part of a county were in a drainage basin, then the acres irrigated by water from irrigation organizations as shown for the census of agriculture were allocated to each drainage basin on the basis of total acres irrigated by water from irrigation organizations for the minor civil divisions or other county subdivisions comprising the part of

the county within the drainage basin to the acres irrigated by water from irrigation organizations. The acreage irrigated by water from ground and surface sources was calculated for each drainage basin part of the county in the same way as for counties entirely within a drainage basin.

4. The total acreage irrigated by water from ground and surface sources was obtained by adding the calculated acreage for the counties and parts of counties comprising the drainage basin.

5. Totals for the acres irrigated by water from farm sources, by ground and surface sources were also obtained for each drainage basin by adding the data for the census of agriculture for the counties and parts of counties comprising the drainage basin. When only part of a county was within a drainage basin, the acres irrigated by water from farm sources, was obtained by totaling the acres irrigated for the minor civil division or other county subdivisions in the drainage basin.

6. To obtain totals for acres irrigated by water from ground and from surface sources, totals for water obtained from farm sources were added to the corresponding totals for water obtained from irrigation organization sources.

A conveyance system comprises the canals, pipes, and tunnels of an organization constructed to carry water from one place to another. It does not include drainage ditches not operated as water supply canals, nor reservoirs, nor stream channels.

Water delivered by an irrigation organization, to a water user or to another irrigation organization, means water which flowed from a canal, pipe, or reservoir operated by one organization directly into a canal, pipe, or reservoir operated by a water user or another organization. Water released to a natural stream channel for diversion by a water user or another organization downstream was not considered a delivery by the organization releasing the water; it was considered as spillback.

Quantity of water is given in the tables in acre-feet. An acre-foot of water is the quantity sufficient to cover 1 acre to a depth of 1 foot, or a total of 43,560 cubic feet. Quantities of water reported on the questionnaires in units other than acre-feet were converted to acre-feet.

Drainage basin is the area of land from which water flows into a given stream, lake, or other body of water or into a natural depression. Drainage basins from which water does not flow into streams that lead to the ocean are termed "independent basins."

The drainage basins for which data from the 1959 census have been tabulated are essentially the same as those used in 1950. Before enumeration, these maps were reviewed by field offices of the United States Geological Survey or United States Army Corps of Engineers. Some changes were made for 1959 in the drainage basin boundaries used in 1950 in order to conform more closely with the drainage basin boundaries used by other government agencies and with stream-gaging stations.

Water conveyed represents the net quantity of water entering the conveyance systems operated by irrigation organizations in each of the designated drainage basins. The quantities reported are "net" in that (1) water transferred from one irrigation organization to another is counted only once; and (2) water released from conveyance systems of irrigation organizations to reservoirs, streams, or drainage ditches or for ground-water recharge is not included. The figures include water conveyed only for withdrawal uses. They, therefore, do not include water used or released for navigation, fish and wildlife, pollution control, or hydroelectric power generation in the same drainage basin. (These uses were included in the 1950 Census of Irrigation and account for most of the water then reported for uses other than irrigation in 1950.)

Conveyed water from surface sources within basin.—Surface sources of water include streams, lakes, reservoirs, and sewage and drainage ditches. Surface water, obtained from natural sources by organizations, represents the amount by which irrigation organizations reduced the supplies of surface water in a particular drainage basin. Water obtained from another basin

released for any reason to surface sources from the conveyance system of an irrigation organization (considered to be a negative withdrawal) was subtracted from the amount withdrawn from surface sources in the drainage basin where the water is released. When the figures for all organizations in a basin were combined, the amount of such surface water diversions usually exceeded the amount of interbasin water transfers released to streams. However, in some basins the quantity of water transferred from other basins and released to streams was greater than the total surface diversions in the basin by the irrigation organizations in the basin, and in such cases, the quantity of water appears in the table as a negative number.

Water entering conveyance systems.—The total water entering conveyance systems in a drainage basin includes the quantity obtained from natural sources in the basin plus water received from other basins. The total water conveyed is shown in acre-feet.

Conveyed water from ground sources within basin.—Ground-water sources relate to wells (pumped or flowing) and water taken directly from springs. The amount of ground water represents the quantity taken from ground-water sources in each basin by irrigation organizations. In 1950, ground-water sources were defined to include only pumped wells.

Release of water from reservoirs.—Releases of water from reservoirs were reported as surface water only if water were diverted into a canal or piped directly from the reservoir itself. Releases from a reservoir to a stream channel for any purpose were not included. If water released by a reservoir were diverted from the stream below the reservoir the quantity reported as received was the amount diverted from the stream, not the amount released from the reservoir. The point of diversion was taken as the location at which the water entered the conveyance system and this could have been in a drainage basin other than the drainage basin in which the reservoir was located. The quantities of water delivered, conveyance loss, etc., in the tables, therefore, do not include reservoir inflows, releases, evaporation from reservoirs, nor changes during the year in the amount of water held in storage.

The quantity of water received for an organization operating a reservoir for storage purposes represented the amount of water entering the conveyance system plus the conveyance losses from the canal or conveyance system that conveyed the water into the reservoir. Thus water received does not include any allowance for changes in the amount of water in the reservoir nor for losses in the reservoir.

Water from other organizations in the basin.—The amount of water received from other irrigation organizations in the basin represents the quantity of water received into the conveyance systems of irrigation organizations from the conveyance system of other irrigation organizations in the same drainage basin.

Water from natural sources within basin.—This is the sum of the water withdrawn within the basin from surface- and ground-water sources.

Water from another drainage basin.—This represents the quantity of water conveyed into the drainage basin from an adjoining basin in a canal, pipeline, or tunnel operated by an irrigation organization. It includes the quantity of water which flowed across the basin boundary in irrigation conveyance systems, regardless of the use of that water. It does not include water flowing from one drainage basin to another in streams or drainage ditches.

Total water leaving conveyance systems.—The total water leaving conveyance systems of organizations is equal to the total water entering the conveyance systems of the organizations in a drainage basin.

Water delivered to farm irrigation water users represents the quantity of water which was delivered at the turnouts to individual irrigated farms. Any water delivered to farm irrigators and used for livestock or other nonirrigation purposes is also included, but the quantity of water used for these purposes represents a very small part of the total water delivered.

Water delivered to residential water users is the amount of water delivered by irrigation organizations to individual water users for household use and for watering lawns, flower gardens, vegetable gardens, etc. It does not include water delivered to urban water-supply systems.

Water delivered for other uses includes any water delivered by an irrigation organization other than water delivered (a) to farm irrigation water users, (b) to individual residential water users, and (c) to other irrigation organizations. It includes water delivered to municipal and suburban water systems not delivering any water for farm irrigation; water delivered for industrial uses; water delivered to farms which used water for livestock or other nonirrigation uses only; and water conveyed for ground-water recharge. Water for other uses does not include water used for hydroelectric power generation only, or to maintain stream flow, for navigation, fish and wildlife protection, or for pollution control.

Water delivered to other irrigation organizations represents the amount of water conveyed from a pipe, canal, or reservoir operated by one irrigation organization into a pipe, canal, or reservoir operated by another irrigation organization, at points within the drainage basin. The amounts are the same as the quantities reported as received from other irrigation organizations in the same basin.

Water delivered for use in the basin is the sum of deliveries at points within the basin to farm irrigation water users, residential water users, and for other uses.

Water conveyed to another drainage basin is the amount of water conveyed from the drainage basin into an adjoining basin or basins, in the conveyance systems of irrigation organizations. The amount flowing across a drainage basin boundary in the conveyance system of irrigation organizations is counted regardless of its use. The disposition of such water is accounted for in the basin to which it was conveyed.

The figures are identical to those given under "Water conveyed from another drainage basin" but tabulated under the basin from which the water was conveyed. The lines in State table 1, entitled "From drainage basin number" and "To drainage basin number," together with the footnotes referring to those lines show the drainage basins involved in the interbasin transfers.

Conveyance loss in basin.—Conveyance loss is the amount of water lost from evaporation, seepage, and wastage not returned in canals or pipes to streams associated with the conveyance of water during the year in the canals and conveyance systems operated by irrigation organizations between natural sources and points of delivery to water users. Conveyance loss does not include losses from reservoirs, or in natural stream channels, or water released for any reason to streams or reservoirs. Losses in the distribution systems of the water users are not included.

The average delivery per acre is given separately for organizations, which did not report water from other sources used on the same land, and for those which did report water from other sources used on the same land. The organizations which did not report water from other sources used on the same land were classified according to the acre-feet of water delivered per acre irrigated, in order to provide more accurate data on the quantity of water used per acre. The classification of organizations operating in more than one basin was made on the basis of acre-feet of water delivered per acre irrigated for the entire organization rather than just the part within the drainage basin.

New capital investment, 1950-1959.—New capital investment represents the amount spent by irrigation organizations for additional new works and equipment for irrigation and drainage from January 1, 1950, to December 31, 1959. It includes expenditures for new construction, enlargement or improvement of works, or for purchase of additional new equipment. It includes only that portion of the cost of multiple-purpose works chargeable to the irrigation and drainage of farm and ranch lands, and the portion financed by the irrigation organization of the cost of works built jointly with another organization. It does not include expenditures for repairs and replacements, operation and maintenance, payment for works constructed before 1950, purchase of water rights, land, or stock or shares in another organization, or contracts or repayment for the purchase of works constructed by the U.S. Bureau of Reclamation or by any other irrigation organization. For new irrigation organizations with irrigation works under construction, the amount spent on both the completed and uncompleted parts of the works from January 1, 1950, to December 31, 1959, were included. However, new capital investments for any organizations that did not deliver water in 1959 were not included.

Each organization was asked to report only its expenditures for works and equipment by itself and not to include expenditures made by any other organization on works which the organization operated in 1959. In the case of works built by the Bureau of Reclamation but now operated by water users organizations, the amount of the expenditures made by the Bureau of Reclamation on the project from January 1, 1950, to December 31, 1959, was obtained from the bureau and included with the expenditures of the water users organizations. In summary table 18, expenditures made by the Bureau of Reclamation are shown separately from those made by other organizations.

For interbasin organizations the new capital investment was tabulated for the drainage basin in which the investment was made.

Type of organization.—The types of organization under which the data are classified are as follows:

Mutual or cooperative organizations.—Mutual or cooperative organizations are private (nongovernmental) organizations controlled or operated by two or more water users primarily to supply water to their own farms. They do not include district enterprises organized under special State laws. They do not have the power to levy taxes and they are operated for the benefit of water users rather than for the profit of owners. If 50 percent or more of the acreage irrigated was not in the farms of the water users who controlled and operated the enterprise, the organization was classified as "commercial." Mutual or cooperative organizations include partnerships of two or more farms which operate irrigation supply works or equipment; groups of water users informally associated under verbal or written agreements; mutual irrigation or water companies; water users associations; "lateral" companies; community ditches or "acequias" organized originally in accordance with old Spanish, Mexican, or Indian customs. Mutual or cooperative organizations may be either unincorporated or incorporated.

District organizations.—District organizations are public corporations established under special State laws to serve particular purposes. A district organization may serve purposes other than irrigation of farm lands and may be known under a variety of names other than "irrigation district," such as conservancy district, water improvement district, water storage district, and State reclamation district. Reclamation districts organized under State laws should not be confused with the United States Bureau of Reclamation projects.

United States Bureau of Reclamation organizations.—As the name implies, United States Bureau of Reclamation organizations include the projects operated by the United States Bureau of Reclamation. If the operation of works constructed by the Bureau of Reclamation had been transferred entirely to a water-users organization, the organization was classified according to the successor type of water-users organization such as district or mutual. If part of the works of the irrigation project were operated by the Bureau of Reclamation and part by a water-users organization, the parts operated by each were reported as separate organizations. In summary tables 10 and 17, data for United States Bureau of Reclamation constructed projects transferred to water users for operation are shown separately. The data for these projects are also included with the type of organization in which the water-user organization was classified in 1959. The purpose for presenting these data separately is to give, as nearly as possible, complete information for all irrigation organizations built by the Bureau of Reclamation.

United States Bureau of Indian Affairs organizations.—These are organizations which were operated by the United States Bureau of Indian Affairs of the United States Department of the Interior.

Commercial organizations are privately operated organizations (by individuals, partnerships, or corporations) with 50 percent or more of the acreage irrigated in farms of water users who do not share in the control and operation of the organization. In some cases, commercial organizations are public utilities regulated by a State commission or by the governing board of a county.

State organizations are those operated by a State agency of any kind.

City or town organizations are those operated by municipalities usually in combination with a domestic water-supply system. If a city or town water-supply organization supplied water for the irrigation of 100 or more acres of agricultural land, it was enumerated as an irrigation organization.

Irrigation organizations by type of service provides a classification of organization by the extent to which water was conveyed by more than one organization between its diversion from a natural source and its delivery to individual water users. The irrigation organizations are classified according to the origin of water conveyed by the organization—that is, (1) all water from ground and surface sources only, (2) all water from irrigation organizations, (3) all water from ground and surface sources, and (4) organizations which conveyed no water in 1959. Organizations which conveyed no water in 1959 are those which operated reservoirs but not conveyance facilities.

Total water conveyed was obtained by adding together the amount of water obtained from surface- and ground-water sources and the amount received from other organizations. This procedure, therefore, caused a double counting of the water obtained from the other organizations if the water were included in the total conveyed by the receiving organization.

Because of the method of handling interorganization transfers released to streams, and organizations receiving water from other organizations and releasing part or all of the water to natural stream channels, negative quantities appear for the quantity of water "From surface and ground water sources," when the amount of water released to streams exceeds the quantity of water taken from sources within the basin or State.

Water from other sources.—The purpose of the question "Was any water from other sources or other organizations also used in 1959 to irrigate the same farm and ranch lands to which water was delivered by this organization?" was to provide a basis for selecting organizations which furnished all the water for irrigating farm and ranch lands in order to make tabulations of acres irrigated and water use for such organizations. The

classification of organizations by acre-feet of water used per acre was made only for those organizations reporting that they provided all the water used by the farms they served.

Size or organization.—Data are presented for three measures of the size of irrigation organizations. These measures are number of farm irrigation water users served directly, number of acre-feet of water delivered directly to farms, and number of acre-feet of water conveyed.

In the case of organizations operating in more than one drainage basin, all measures of size relate to operations of the irrigation organization in all basins rather than to the operations within one drainage basin.

Comparability of data for prior censuses and for the census of agriculture.—The comparability of data for the various censuses of irrigation have been affected by changes in definitions and procedures. The data for the censuses of irrigation and the census of agriculture are not fully comparable, because of differences in definition and the extent of reconciliation made in reports for the two censuses. The following discussion relates to most of the important differences in comparability.

Quantity of water by drainage basins, 1959 and 1950.—In 1959, a report was obtained for each irrigation organization for the quantity of water delivered to farm water users for each drainage basin. For 1950, data were not obtained from each irrigation organization for each drainage basin for the quantity of water delivered to farms. In 1950, irrigation organizations operating in more than one county or drainage basin reported 47 percent of all water delivered to farms and other irrigation organizations. For these organizations the quantity of water delivered to farms was allocated to drainage basins in proportion to the acreage irrigated by such organizations in each drainage basin. In 1950, no allocation was made by drainage basins of the quantity of water obtained from ground and surface sources, the quantity of water lost in conveyance, and the quantity delivered to other irrigation organizations. In the drainage basins, where a substantial part of the water is obtained from sources outside the drainage basin, the data for 1959 and 1950 are not fully comparable.

Farms or farm water users supplied by irrigation organizations and the number of farms reporting water received from irrigation organizations.—An examination of data for the number of water users or farms provided with irrigation water as reported by irrigation organizations and the number of farms receiving water from irrigation organizations for the census of agriculture indicates that the data from the two sources are not comparable. For example, for 1959, the number of farm water users as reported by irrigation organizations for the 18 States was 333,654. The number of farms reporting water received from irrigation organizations as shown by the census of agriculture for the 18 States was 153,704. In many cases, irrigation organizations count as the number of farm users, the number of stockholders, the number of ownership units, the number of persons paying bills, or the number of tracts eligible to receive water as the number of farm water users. When two or more irrigation organizations furnish water to the same water user, the water user is counted by each organization supplying the water. Undoubtedly some of the farm water users reported by irrigation organizations were landlords not operating a farm. In the census of agriculture, one farm operator often operates several tracts and rents land from several owners, or obtains water from more than one irrigation organization. In the census of agriculture, such a farm operation is counted as one farm. On the other hand in the census of irrigation, each owner of land or tract may be counted as a separate farm water user.

For the 1950 census, the number of farms receiving water as reported by each irrigation organization was checked against the records for the farm operators reporting water received from the irrigation organization as shown by the census of agriculture.

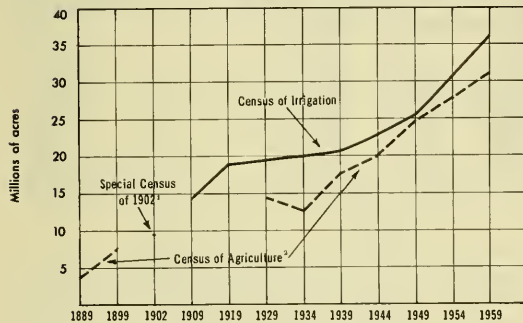
The checking resulted in the number of farms reported as receiving water from irrigation organizations being reduced from approximately 400,000 to 246,000. Because of the correction in the number of farms furnished irrigation water as shown by reports of the census of irrigation as the result of the matching of reports for the census of irrigation with the reports of the 1950 Census of Agriculture, the number of irrigated farms shown for the 1950 Census of Irrigation is not comparable with number of farm irrigation water users reported for irrigation organizations in 1959 nor with the number of farm water users or irrigated farms reported for irrigation organizations for other censuses.

Acres irrigated as shown by census of irrigation and census of agriculture.—For every census, the area irrigated as reported by irrigation organizations has exceeded the acres irrigated as reported by the census of agriculture. The area irrigated as reported by irrigation organizations has been overstated for every census. The overstatement arises from two sources:

1. Some irrigation organizations report the area assessed for water, the area eligible to receive water, or the total area in farms receiving water. Usually these areas are considerably greater than the area irrigated during a year.

2. In some cases, two or more irrigation organizations provide water used to irrigate the same area. In such cases, the same area is counted by each of the organizations supplying the water.

ACREAGE OF IRRIGATED LAND FOR THE 17 WESTERN STATES AND LOUISIANA



¹Total irrigated land, all States.

²In 1889, 1899 and 1944 through 1959, all irrigated land in farms; 1929 and 1934, acreage of irrigated crops only; 1939, acreage of irrigated crops plus irrigated pasture. Data for 1909 and 1919 not available.

A comparison of the area reported as irrigated by each irrigation organization and the area reported as irrigated by the farm operators receiving water from the organization was made for the 1950 census. This comparison resulted in the reduction of approximately 7 percent in the acreage irrigated as reported by irrigation organizations. In 1959, approximately one-seventh of all the irrigation organizations provided water to farms that also received irrigation water from other irrigation organizations. These irrigation organizations provided water for one-fifth of the area irrigated by irrigation organizations in 1959. However, the area receiving irrigation with water from two or more irrigation organizations represented about one-fifth of the area irrigated by all irrigation organizations.

For 1950, the overstatement of the area irrigated plus the duplication in the counting of the area irrigated by water from two or more irrigation organizations was equal to 12 to 15 percent of the area irrigated as originally reported by irrigation organizations for 1949.

For 1959, irrigation organizations reported 17.7 million acres irrigated. The calculations of area irrigated by water furnished by irrigation organizations for farms included in the census of agriculture was 12.9 million acres. Part of the 4.8 million acre

difference is the result of the counting by each irrigation organization of areas to which two or more irrigation organizations provided water, and part of the difference is the result of the overstatement of areas irrigated by irrigation organizations. Also, it is very likely that the method used in the 1959 Census of Agriculture for calculating acres irrigated by water furnished farms by irrigation organizations may have resulted in an understatement of the area actually irrigated. There were 27,102 farms, representing 10.1 percent of all the farms with irrigation in the 18 States that obtained water from on-the-farm sources and also from irrigation organizations. The total acres irrigated on these farms was 5.3 million, of which 2.6 million acres were allocated as irrigated by water from irrigation organizations. On many farms, where irrigation water is obtained from irrigation organizations, the cost of water from irrigation organizations is likely to be less than the cost of water obtained from wells, etc. Because of the differences in cost and in the availability of water during the irrigating season, it is very likely that the proportion of the area irrigated with water from irrigation organizations may be considerably greater than the proportion of water obtained from such source.

Because of the correction of the area irrigated by irrigation organizations on the basis of detailed comparisons of the reports for each irrigation organization with the records for the 1950 Census of Agriculture, the figures for the area irrigated by water from irrigation organizations for 1950 are not comparable with those for 1959 nor with those for 1940 and prior censuses. The difference between the area irrigated as shown by the 1959 census and the 1950 census for irrigation organizations overstates significantly the increase in the acreage irrigated by water furnished by irrigation organizations.

Irrigation in Hawaii.—The first census of irrigation organizations was taken for 1959. The figures for Hawaii have not been included with those of the 18 States in conterminous United States because comparative data are not available for prior censuses. There were 16 organizations qualifying for the census of irrigation in Hawaii in 1959; these 16 organizations provided water for 86,949 out of the 141,179 acres irrigated in 1959 in Hawaii. The following table presents a summary of the more significant data for Hawaii. Of the 16 irrigation organizations in Hawaii, 10 were operated by commercial organizations and 6 by the State, cities, and other agencies.

SUMMARY FOR IRRIGATION ORGANIZATIONS IN HAWAII: 1959

Item (For definitions and explanations, see text)	Hawaii
Total acres irrigated in census year.....1959..	141,179
Irrigation organizations.....organizations 1959..	16
Service area, 1959:	
Farm area reported served, by organizations.....acres 1959..	244,888
Farm area reported irrigated, by organizations.....acres 1959..	85,251
Water users served, total.....water users 1959..	50,763
Farm irrigation water users.....water users 1959..	729
Residential water users.....water users 1959..	49,342
Other water users.....water users 1959..	692
LAND IRRIGATED BY SOURCE OF WATER, 1959	
Ground water sources.....acres..	74,000
Surface water sources.....acres..	67,000
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959	
Total entering conveyance system in basin.....organizations..	16
acres-ft.....	1,007,106
From natural sources within basin.....organizations..	16
acres-ft.....	1,007,106
Surface water.....organizations..	14
acres-ft.....	437,395
Ground water.....organizations..	11
acres-ft.....	569,711
Total leaving conveyance systems.....organizations..	16
acres-ft.....	1,007,106
Conveyance loss in basin.....organizations..	10
acres-ft.....	122,596
Delivered for use in the basin.....organizations..	16
acres-ft.....	884,510
To farm irrigation water users.....organizations..	16
acres-ft.....	803,333

SUMMARY FOR IRRIGATION ORGANIZATIONS IN HAWAII: 1959—Con.

Item (For definitions and explanations, see text)	Hawaii
AVERAGE DELIVERY OF IRRIGATION WATER PER ACRE, 1959	
Per acre irrigated as reported by organizations..... acre-feet.....	9.4
NEW CAPITAL INVESTMENT, 1950-1959	
Expenditures for additional new works and equipment for irrigation and drainage Jan. 1, 1950-Dec. 31, 1959..... organizations..... dollars.....	8 5,614,476
ACRES IRRIGATED	
Total acres irrigated..... farms reporting..... acres.....	1,251 141,179
Acres irrigated by sprinklers..... farms reporting..... acres.....	546 16,065
Sprinklers only..... farms reporting..... acres.....	475 13,169
LAND IRRIGATED, BY SOURCE OF WATER TO INDIVIDUAL FARMS, 1959	
Ground water sources on farm..... farms reporting..... acres.....	219 26,086
Ground water sources on farm only..... farms reporting..... acres.....	166 9,449
Surface sources on farm..... farms reporting..... acres.....	334 28,144
Surface sources on farm only..... farms reporting..... acres.....	289 13,121
Irrigation organization sources..... farms reporting..... acres.....	781 86,949
Irrigation organizations sources only..... farms reporting..... acres.....	713 81,788
Both farm ground water sources and surface sources..... farms reporting..... acres.....	15 14,909
Both Irrigation organization and farm ground water or farm surface sources..... farms reporting..... acres.....	68 21,912

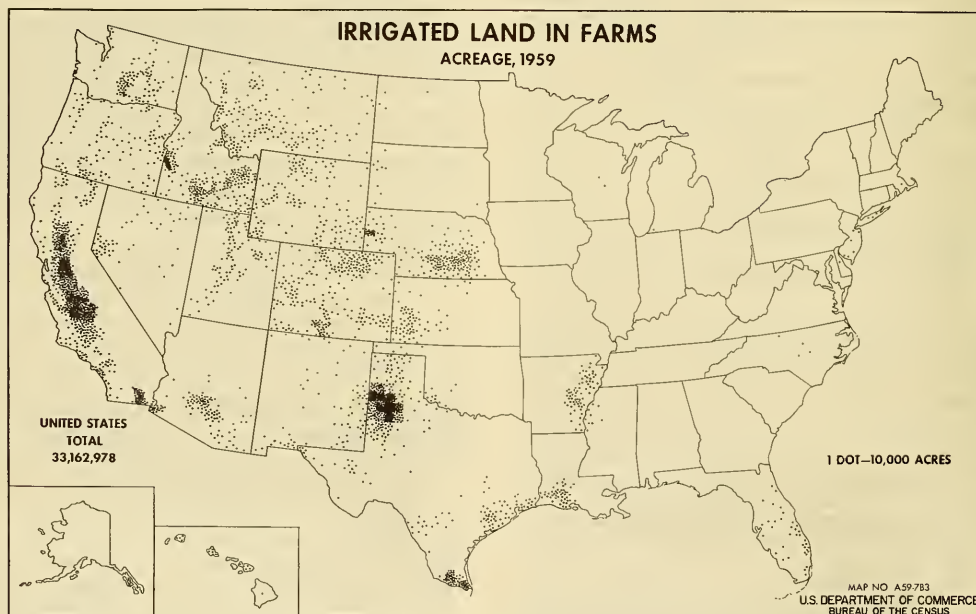
No data are available by drainage basins for Hawaii. Some irrigation works of considerable size are operated by sugarcane plantations to provide water for a single farm. Data for those irrigation operations for a single farm are not included in the data for irrigation organizations for Hawaii.

Irrigated land in sugarcane, vegetables, and pineapples accounts for more than four-fifths of the total acres irrigated in Hawaii. Detailed data regarding irrigated farms and the acreage and production of crops on irrigated land may be found in county tables 1a and 11a of part 50 of volume I of the reports for the 1959 Census of Agriculture.

SUMMARY

This summary presents both current and historical data pertaining to irrigated farms and irrigated land in farms obtained in the 1959 and earlier censuses of agriculture; and data pertaining to irrigation organizations from the 1959 and earlier censuses of irrigation; and data pertaining to irrigation water obtained in the 1959 and earlier censuses, both agriculture and irrigation.

Irrigated land in farms.—The acreage irrigated in 1959 for the 48 conterminous (Alaska and Hawaii are excluded) States was 33,021,799 acres according to the 1959 Census of Agriculture. This was 11.7 percent greater than the 29,552,155 acres reported in 1954 and 28 percent greater than the 25,787,455 acres reported in 1950 for the calendar year 1949. For the 17 conterminous Western States and Louisiana, the 1959 irrigated area amounted to 31,222,967 acres, or 94.6 percent of the irrigated acreage for the 48 conterminous States. The increase in irrigated acreage for the 18 States was 12.8 percent from 1954 to 1959 and 25.7 percent from 1949 to 1959.



The change in irrigated acreage in the 18 States varied considerably by geographic areas. Of the 6.4 million acres net increase from 1949 to 1959, 42.2 percent occurred in the Plains States of Texas and Oklahoma; 29.4 percent in the Northern Plains States of Nebraska, Kansas, North and South Dakota; and 22.8 percent in three Pacific States of California, Washington, and Oregon. In the eight Mountain States, the net increase was only 452,228 acres or 7.1 percent of the total increase in the 18 States. Decreases were reported for Colorado, Nevada, and Utah, and also for Louisiana.

The largest acreage expansion in the 10-year period in any individual State was recorded in Texas with an increase of 2,524,104 acres, or 80.6 percent increase in the irrigated acreage from 1949 to 1959. Nebraska had an increase of 1,201,667 acres, or 137.1 percent, and California an increase of 957,246 acres, or 14.9 percent from 1949 to 1959.

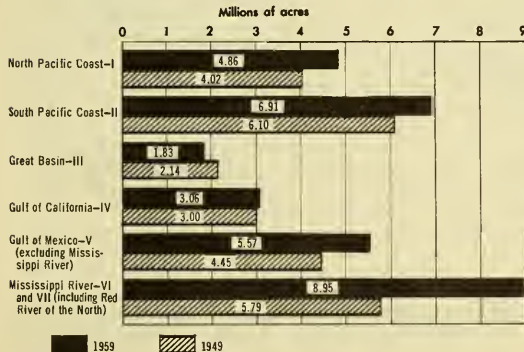
IRRIGATED LAND IN FARMS: 1959, 1954, AND 1949

Area or State	1959 (acres)	1954 (acres)	1949 (acres)
48 conterminous States, total.....	33,021,799	29,552,155	25,787,455
18 specified States, total.....	31,222,967	27,678,507	24,847,341
Northern Plains States.....	3,003,312	1,830,963	1,128,308
North Dakota.....	47,656	37,672	35,294
South Dakota.....	115,629	90,371	78,069
Nebraska.....	2,077,926	1,171,369	876,259
Kansas.....	702,101	331,551	138,686
Southern Plains States.....	5,853,270	4,815,179	3,165,605
Oklahoma.....	197,632	108,151	34,071
Texas.....	5,655,638	4,707,028	3,131,534
Louisiana.....	484,850	707,818	576,775
Mountain States.....	12,094,712	11,207,997	11,642,454
Montana.....	1,874,520	1,890,671	1,716,792
Idaho.....	2,576,580	2,524,571	2,137,237
Wyoming.....	1,469,911	1,262,632	1,451,707
Colorado.....	2,684,757	2,262,921	2,872,348
New Mexico.....	731,835	649,615	655,287
Arizona.....	1,152,450	1,177,407	993,500
Utah.....	1,061,682	1,072,682	1,137,965
Nevada.....	542,976	567,498	727,498
Pacific States (conterminous).....	9,786,823	9,316,550	8,334,169
Washington.....	1,006,969	778,135	589,035
Oregon.....	1,384,284	1,480,366	1,306,810
California.....	7,395,570	7,048,049	6,438,324

For the major drainage basins, the Mississippi River Basin, which includes all the Plains States except for the southern part of Texas, with 8.97 million acres, had the largest irrigated acreage, and its increase of 3.16 million acres over 1950 was the largest in any of the basins. The Great Basin had a small decrease in irrigated acreage from 1949 to 1959.

The different regional trends in the number of acres irrigated have been affected by a number of factors. The increase in

ACREAGE OF IRRIGATED LAND BY MAJOR DRAINAGE BASINS IN THE 17 CONTERMINOUS WESTERN STATES AND LOUISIANA: 1959 AND 1954

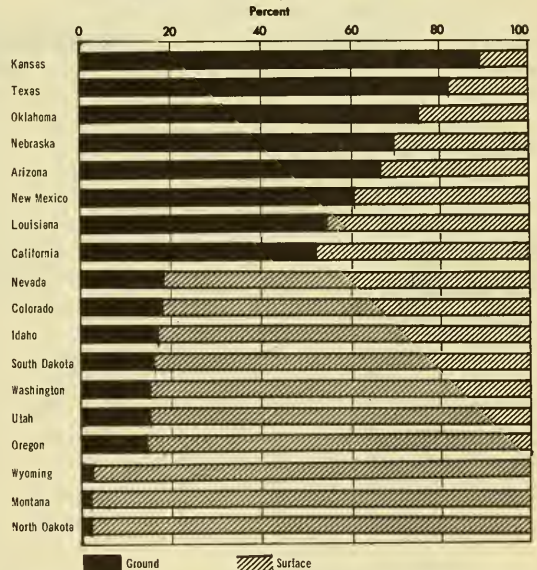


Nebraska, Kansas, Oklahoma, and Texas has been largely due to the development of ground-water supplies. In the Northern Plains States, irrigation expansion was in part the result of the development of large-scale public projects. In the Mountain States, ground-water supplies are not as plentiful as in the Plains States and surface-water supplies were more fully developed before 1950. Irrigation growth in the Pacific States has resulted from the availability of both ground- and surface-water supplies and the development of large-scale public irrigation projects. The decrease of irrigated acreage in Louisiana is largely the result of lower rice acreage, while the decrease in irrigated acreage in the Great Basin was largely the result of a water shortage in 1959.

Sources of irrigation water.—According to the 1959 Census of Agriculture, of the total of 31,222,967 acres irrigated in the 18 States, 13,243,912 acres, or 42.4 percent, were irrigated from ground-water sources on the farm; 5,081,250 acres, or 16.3 percent, were irrigated from surface-water sources on the farm; and 12,897,805 acres, or 41.3 percent, were irrigated by water received from irrigation organizations.

The irrigation organizations obtained the major portion of their water from surface-water sources. In the 18 States, the irrigation organizations reported 72,997,259 acre-feet of water were obtained from natural sources. Of this amount, 68,685,789 acre-feet, or 94 percent, was from surface sources.

PERCENTAGE DISTRIBUTION OF TOTAL ACRES IRRIGATED, BY SOURCE OF WATER, BY STATES: 1959



Arizona, Louisiana, and California are the only States in which the proportion of ground water obtained by irrigation organizations exceeded the average for the 18 States. In Arizona, irrigation organizations obtained 39 percent of the water from ground-water sources; in Louisiana, irrigation organizations obtained 16.4 percent; and in California, irrigation organizations secured 9.6 percent of the total water from ground-water sources.

To determine the total farm acreage irrigated from ground and surface sources, the acreage irrigated by organization water in each drainage basin was divided between ground and surface

sources in proportion to the amount of water obtained from each source by the irrigation organizations and these figures were added to the acreage irrigated from farm ground and surface sources. In this manner, the total farm acreage irrigated from ground-water sources was determined to be approximately 14.0 million acres or about 45 percent of the total acres irrigated. The total farm acreage irrigated from surface-water sources equaled about 17.2 million acres or about 55 percent of the total acres irrigated.

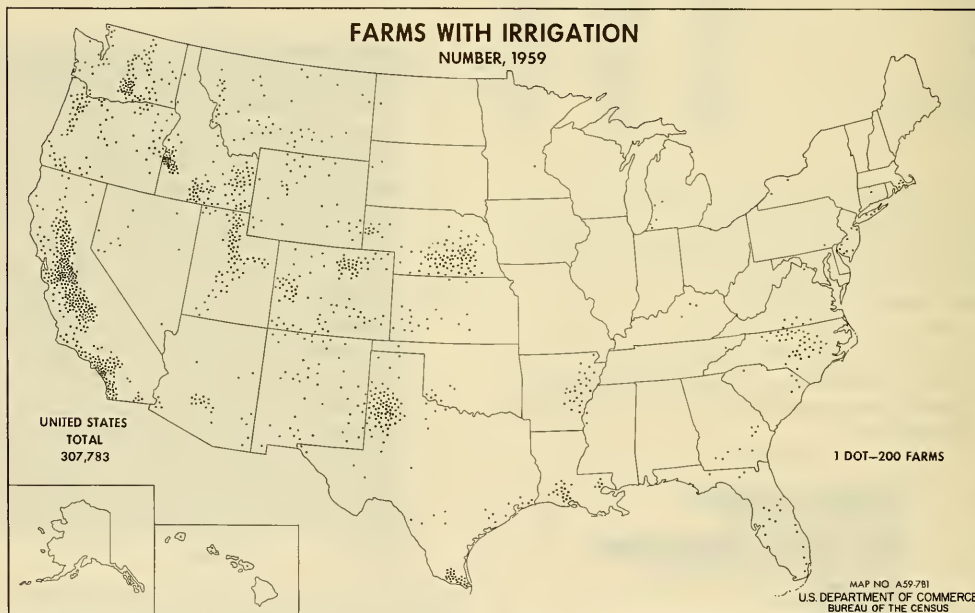
The percentage of the irrigation water which originated from ground or surface sources varied greatly among the 18 States. In Kansas 88.7 percent of the irrigation water was secured from ground sources. The corresponding percentages for North Dakota and Montana were 2 percent. The States with over 50 percent of the irrigation water received from ground sources were the Plains States of Nebraska, Kansas, Oklahoma, and Texas; and Arizona, New Mexico, and Louisiana. In each of the other 10 States, the proportion of the water from ground sources was less than 20 percent.

Irrigated farms.—There were 306,532 farms in the conterminous United States with irrigated land in 1959 according to the 1959 Census of Agriculture. In 1954, irrigated land was reported by 320,236 farms and in 1950 by 305,061 farms. The number of irrigated farms was almost the same in 1959 as in 1950 but the number decreased 4.3 percent between 1954 and 1959. In the 18 States the number of irrigated farms in 1959 was 7.4 percent smaller than in 1950 and 6.8 percent smaller than in 1954. The

number of irrigated farms decreased in all the Mountain States and in California and Louisiana. In each of the Plains States and Washington there was an increase in the number of irrigated farms from 1954 to 1959.

NUMBER OF IRRIGATED FARMS AND PERCENT OF ALL FARMS WITH IRRIGATION: 1959, 1954, AND 1950

Area or State	Number of irrigated farms			Percent of all farms reporting irrigation		
	1959	1954	1950	1959	1954	1950
48 conterminous States, total.....	306,532	320,236	305,061	8.3	6.7	5.7
18 States, total.....	267,431	286,793	288,914	25.6	22.2	20.2
Northern Plains States.....	25,001	16,558	11,957	8.2	4.8	3.2
North Dakota.....	471	399	304	0.9	0.6	0.5
South Dakota.....	1,002	923	807	1.8	1.5	1.2
Nebraska.....	18,936	12,500	9,680	20.9	12.4	9.0
Kansas.....	4,592	2,736	1,166	4.4	2.3	0.9
Southern Plains States.....	30,365	27,935	21,893	9.4	6.8	4.6
Oklahoma.....	2,481	1,620	406	2.6	1.4	0.3
Texas.....	27,884	26,315	21,427	12.3	9.0	6.5
Louisiana.....	4,817	6,897	7,438	6.5	6.2	6.0
Mountain States.....	96,094	112,231	122,280	64.5	62.3	62.8
Montana.....	11,935	13,114	13,457	41.2	39.7	38.4
Idaho.....	25,383	28,218	29,413	75.4	72.8	73.0
Wyoming.....	6,412	7,130	7,831	65.8	62.5	62.1
Colorado.....	20,312	23,355	27,121	60.8	57.3	59.5
New Mexico.....	8,850	11,690	12,691	55.6	55.5	53.8
Arizona.....	5,391	6,909	7,822	74.5	73.1	75.1
Utah.....	15,701	19,406	21,126	88.2	85.0	87.4
Nevada.....	2,110	2,509	2,819	89.6	87.8	90.6
Pacific States (conterminous).....	111,154	123,172	125,346	57.5	50.8	47.0
Washington.....	19,292	18,944	16,928	37.4	28.9	24.2
Oregon.....	17,724	19,826	17,663	41.6	36.4	29.5
California.....	74,138	84,502	90,755	74.7	68.7	66.2



In the areas showing a decrease in the number of irrigated farms, the decline was largely the result of the consolidation of farms into larger operating units. The States with an increase in the number of irrigated farms also showed an increase in irrigated acreage. In the States with an increase in the number

the existing farms and in some cases the introduction of irrigation resulted in the division of existing dryland farms into a larger number of smaller irrigated farms. With the exception of Arizona and Nevada, a larger proportion of the farms in each of the 18 States had irrigation in 1959 than in 1950.

Irrigation organizations.—A total of 8,749 irrigation organizations was included in the 1959 Census of Irrigation in the 17 conterminous Western States and Louisiana. This compares with 10,491 organizations in 1950. In Kansas, North Dakota, and South Dakota there was a larger number of irrigation organizations in 1959 than in 1950.

Types of irrigation organizations.—The number of mutual organizations reported in 1959 was 7,726. Of these, 4,989 were classified as unincorporated and 2,737 as incorporated. The total number of mutual organizations had declined from 9,348 in 1950 when there were 6,464 unincorporated organizations and 2,884 incorporated organizations.

The number of mutual organizations, incorporated and unincorporated combined, decreased in 16 States. The decrease in the number of mutual organizations resulted from several factors. In California, the agricultural lands of many of the smaller organizations have been converted to urban uses. In New Mexico, many of the small organizations did not have a water supply in 1959 and, therefore, were not included in the census. In all States, some of the small mutual organizations which had served two or three farms in 1950, did not qualify for inclusion in the 1959 census because of the consolidation of the farms served by them.

The combined irrigated acreage reported by both the unincorporated and the incorporated mutuals equals 8.8 million acres. This is larger than the irrigated acreage reported by any other type of organization. However, the 6.9 million acres reported irrigated by irrigation districts is greater than the acreage reported by either type of mutual organization alone.

There were 558 irrigation districts reported in the 1959 Census of Irrigation which was an increase from 483 in 1950. The number of irrigation districts increased in 10 of the 18 States. In Nevada, the number was identical for both 1950 and 1959. There were no irrigation districts in Louisiana.

The number of projects or storage systems (see page xvi "Organizations included" for definition of project) operated by the Bureau of Reclamation increased from 37 in 1950 to 54 in 1959. The 54 projects reported 710,904 acres irrigated; however, these figures do not represent the total contribution of the Bureau of Reclamation to irrigation. Usually as the Bureau of Reclamation completes a project, the project is turned over to a water-users organization for operation. These organizations were enumerated under the type of organization they represented (in most cases, irrigation districts). In the 1959 Census of Irrigation, there were 147 organizations which had been built by the Bureau of Reclamation but were then operated by water-users organizations. These 147 organizations reported 3.3 million acres irrigated. This represents the total number of organizations for which the irrigation facilities were built by the Bureau of Reclamation and turned over to water users for operation.

The number of commercial organizations in the 18 States, dropped from 401 in 1950 to 246 in 1959. There was a decrease in the number of commercial organizations in both Louisiana and California, the only States where commercial organizations are important. The decrease in the number of organizations in California was largely the result of farm lands being taken over for urban and suburban development. In Louisiana, a number of commercial irrigation organizations did not qualify for inclusion in the census because they provided water for only one farm.

According to the 1959 Census of Irrigation, there were 123 United States Bureau of Indian Affairs irrigation projects. This was a decline from the 141 reported in 1950. The decrease resulted largely from differences in counting projects as independent irrigation organizations, when some of the projects were controlled by the same part of the Bureau of Indian Affairs.

Interrelationships between irrigation organizations.—Many irrigation organizations do not deliver all of their water for irrigation direct to farms, but rather deliver part or all to other irriga-

tion organizations which may deliver to farms or which in turn may deliver water to still other irrigation organizations.

Out of the 8,749 total irrigation organizations, reported in the 18 States, 5.2 percent received part of their water from other organizations, and 8 percent received all of their water from other organizations. In the 18 States, irrigation organizations reported 56.1 million acre-feet of water delivered to farm and residential water users. Of this amount 18.8 percent was delivered by organizations which obtained part of their water from other organizations, and 7.5 percent was delivered by organizations which received all of their water from other organizations.

The delivery of part of the water to other organizations was reported by 379 organizations or 4.3 percent of all organizations. The delivery of all water to other organizations was reported by only 67 organizations. Organizations supplying part of their water to other organizations delivered 8.7 million acre-feet of water to those other organizations or 9.5 percent of the total water conveyed, including water delivered to other organizations. Organizations, delivering all of their water to other organizations supplied 9.9 million acre-feet of water or 10.8 percent of the total water conveyed.

Size of organization.—Data are presented for the three measures of size of organizations. Acre-feet of water conveyed constitutes the most accurate measure of size. Of the 8,749 irrigation organizations in the 18 States, 8,669 conveyed water (the other 80 operated reservoir facilities and released all water to natural stream channels). The 8,669 organizations which conveyed water, reported an average of 10,371 acre-feet of water conveyed. This average includes quantities delivered to other organizations. More irrigation organizations were in the size group conveying 300 to 999 acre-feet of water than in any other size group. There were 1,707 organizations which conveyed 1 to 299 acre-feet and 2,059 organizations which conveyed between 1,000 to 2,999 acre-feet. There were 132 organizations which conveyed over 100,000 acre-feet of water.

Capital investment.—The data given for capital investment of irrigation organizations are not precise. In the 1940 Census of Irrigation the organizations were asked to report the total investment in their works and equipment as of December 31, 1939. In the censuses of 1950 and 1959 the organizations were asked to report only capital investments made during the 10-year period preceding the census. These figures which have been added together to obtain total capital investment and the total have not been adjusted to take into account changes on the price level. The amounts of investment reported by the smaller organizations are largely estimates. Many changes in ownership, organization, and method of computing the valuation have influenced the accuracy of the figures for capital investment.

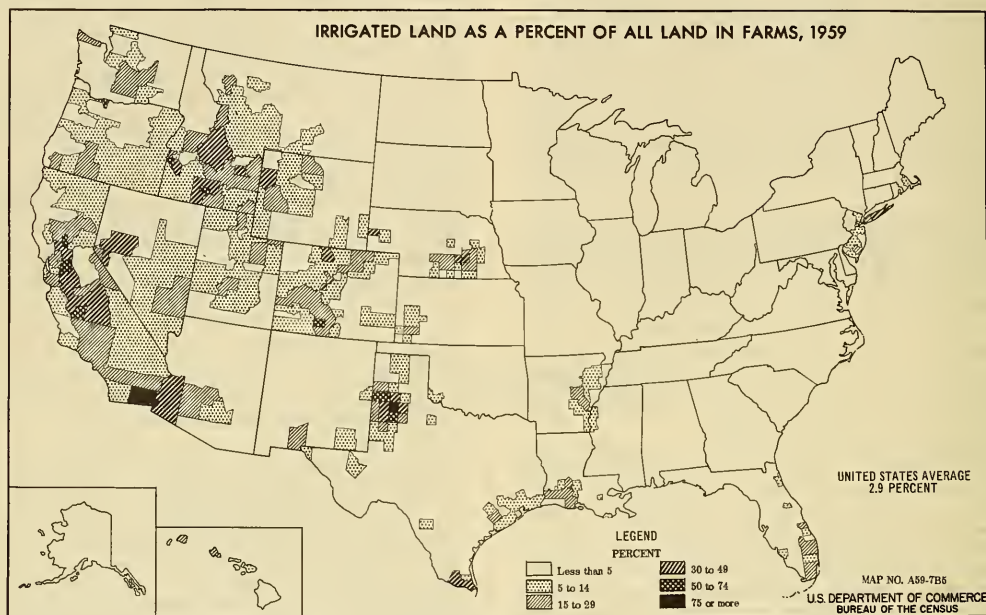
Farms by extent of irrigated crops.—For tabulation purposes, farms in the 18 States were classified into four groups: (1) Farms with all crops irrigated, (2) farms with part of the crops irrigated, (3) farms with land irrigated and no crops harvested from irrigated land, and (4) farms with no irrigated land. The summary for these four groups of farms for the 18 States for 1959 follows:

Item	All farms	Farms with all crops harvested, irrigated	Farms with part of crops harvested, irrigated	Farms with irrigated land, but no crops harvested from irrigated land	Farms with no irrigated land
Number of farms.....	1,044,166	178,029	64,404	24,998	776,735
Land in farms.....acres.	714,869,571	105,108,816	92,395,967	15,828,185	501,530,174
Land irrigated.....acres.	31,222,967	22,142,351	8,133,410	947,206	-----
Cropland harvested, total.....acres.	144,414,833	18,747,587	19,080,304	644,946	105,932,996
Irrigated.....acres.	26,198,581	18,747,587	7,450,994	644,946	-----
Not irrigated.....acres.	118,216,252	-----	11,628,310	-----	105,932,996
Land other than cropland harvested irrigated.....acres.	5,024,386	3,394,764	682,416	947,206	-----

Of the 1,044,166 farms in the 18 States, only 267,431 reported land irrigated in 1959 and only 31.2 million acres were irrigated of the 715 million acres of land in farms in these States. Irrigated farms in these States contained over 213 million acres of land. In 1959, crops were harvested from 26.2 million acres of the 31.2 million acres irrigated. The 5 million acres of irrigated land from which no crops were harvested were largely irrigated pastureland, although a part of the acreage was irrigated land in cultivated summer fallow.

In the 18 States there were 144.4 million acres of land from which crops were harvested but only 26.2 million acres, or 18

percent, were irrigated in 1959. Approximately 68 percent (26.2 million acres) of the 38.5 million acres of land from which crops were harvested on farms with irrigation were irrigated in 1959. There were 178,029 farms on which all crops harvested were irrigated. Those farms had 71 percent of all irrigated land and 72 percent of the irrigated land from which crops were harvested. There were 24,998 farms with no crops harvested from irrigated land in 1959. These farms had 947,206 acres of irrigated land and nearly 645,000 acres of land from which crops were harvested. A large part of the irrigated land on these 24,998 farms was used for pasture.



In order to facilitate the tabulation of census data on crops, farm operators were asked to indicate which crops on their farms were entirely irrigated in 1959 and to report the acreage irrigated for those crops which had only a part of the harvested acreage irrigated in 1959.

There were approximately 26.2 million acres of crops harvested from irrigated land in the 18 States. Only data for the acreage harvested are available for the crops for which only part of the acreage harvested was irrigated, since farm operators were not asked to report separately the quantity harvested from the irrigated land if only a part of the acreage for a crop was irrigated.

The data in summary table 4 for crops harvested on irrigated farms relate only to the crops for which the entire area harvested was irrigated. The entire acreage harvested and the production were included in the totals for nonirrigated crops when only part of the acreage of the crop on a farm was irrigated. The figures for nonirrigated crops include about 2.9 million acres of irrigated crops for 1959 and more than 2.0 million acres of irrigated crops for 1954. This procedure should be kept in mind if the figures are to be used in making comparisons of relative yields for irrigated and nonirrigated crops. Since the acreage irrigated is not available for those crops for which only a part of the acreage

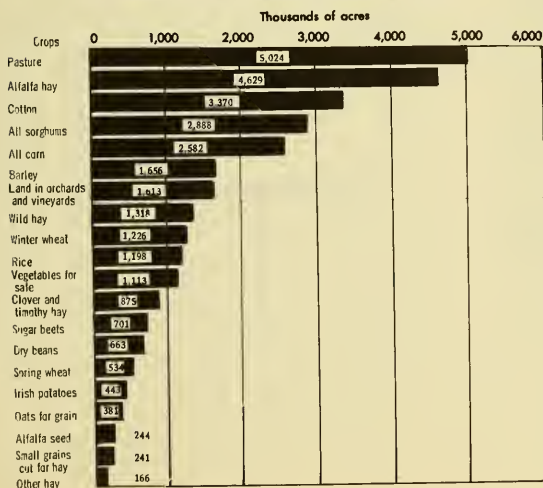
harvested was irrigated in 1954, the data in summary table 4 cannot be used to measure the change from 1954 to 1959 in the irrigated acreage of each crop harvested. Summary table 3 presents the total acres irrigated for each crop in 1959 and also the acreages irrigated for those crops for which only a part of the acreage was irrigated in 1959. Six crops—sorghums (755,000 acres), corn (725,000 acres), hay (483,000 acres), wheat (432,000 acres), cotton (446,000 acres), and barley (92,000 acres)—accounted for a total of 98 percent of the 3,000,000 acres of irrigated crops harvested on farms on which only a part of the acreage of such crops was irrigated in 1959. These were the only crops for which as much as 3 percent of the total acreage of the irrigated crop was reported on farms on which only a part of the crop was irrigated.

Importance of crop production on irrigated land.—In order to indicate the importance of the production of each crop harvested on irrigated land, estimates have been made for the production on the irrigated part for each crop irrigated, when only part of the acreage of the crop was irrigated. These estimates represent approximations as the estimates have been made by assuming that the yield per acre for the acreage irrigated for crops for which only part of the acreage was irrigated was the same as for the acreage for which the entire acreage was irrigated. These estimates have been made only for the 18 States as a group.

ESTIMATED PRODUCTION OF PRINCIPAL CROPS HARVESTED FROM IRRIGATED LAND
FOR 18 SPECIFIED STATES: 1959

Crop		Estimated total production on irrigated land in 18 States			Reported production on irrigated land where all of crop was irrigated	Estimated production on irrigated land where part of crop was irrigated
		Total	Percent of total for 18 States	Percent of total for conterminous United States		
FIELD CROPS						
Corn harvested for grain	bushels	150,415,229	27.9	4.1	98,228,621	52,186,608
Sorghums harvested for grain	bushels	172,646,780	36.4	34.0	124,396,146	48,250,634
Small grains harvested, total	acres	5,251,160	8.1	5.4	4,703,047	548,113
All wheat	bushels	69,166,629	8.7	6.6	52,182,584	16,984,045
Winter wheat	bushels	41,979,119	6.7	4.8	28,394,776	13,584,343
Spring wheat	bushels	25,451,952	15.2	13.4	23,787,808	1,664,144
Oats	bushels	18,072,472	9.2	1.8	17,264,207	808,265
Barley	bushels	84,649,138	25.3	21.3	79,952,435	4,696,703
Rye	bushels	354,306	2.8	1.6	333,790	20,516
Flaxseed	bushels	1,392,599	9.5	7.1	1,387,544	5,055
Rice	bushels	89,791,855	100.0	74.3	89,791,855	—
Other grains	acres	202,372	22.3	17.4	196,386	5,986
Soybeans harvested for beans	bushels	1,407,958	6.1	0.3	1,324,568	83,390
Cowpeas harvested for peas	bushels	102,825	14.6	7.0	91,132	11,693
Dry field and seed beans harvested for beans	100-lb. bags	11,631,511	95.7	60.9	11,487,993	143,518
Dry field and seed peas harvested for peas	bushels	1,546,990	18.9	18.6	1,530,259	16,731
Hay:						
Alfalfa and alfalfa mixtures cut for hay	tons	16,101,913	60.6	26.9	15,103,044	998,869
Clover, timothy, and mixtures of clover and grasses cut for hay	tons	1,312,367	52.9	5.9	1,231,371	80,996
Lespedeza cut for hay	tons	1,085	0.5	(Z)	1,085	—
Vetch or peas cut for hay	tons	7,400	13.8	13.8	6,367	1,033
Oats, wheat, and other small grains cut for hay	tons	424,104	18.8	11.6	402,247	21,857
Wild hay cut	tons	1,311,603	17.0	15.2	1,203,257	108,366
Other hay cut	tons	227,685	10.7	4.2	228,561	28,024
Grass silage	tons, green weight	373,465	29.3	46.9	331,297	42,168
Alfalfa seed harvested	bushels	1,264,816	72.0	69.8	1,254,359	10,457
Red clover seed harvested	bushels	218,447	66.4	14.8	218,000	447
Sweetclover seed harvested	bushels	14,572	6.2	3.8	14,514	58
Cotton harvested	bales	5,303,255	68.0	38.1	4,589,108	714,147
Irish potatoes harvested	bushels	163,701,983	86.8	43.8	162,477,070	1,224,893
Sweetpotatoes harvested	bushels	2,112,923	21.0	7.2	2,056,912	56,011
Sugar beets harvested	tons	13,821,730	97.2	82.2	13,796,573	25,157
Hops harvested	pounds	54,032,675	99.0	99.0	53,527,469	505,206
Popcorn harvested	1,000 lb. ear corn	9,551	29.1	3.9	8,299	1,252
BERRIES AND SMALL FRUITS						
Berries and other small fruits harvested for sale, total	acres	33,618	51.4	17.5	32,213	1,405
Strawberries	quarts	148,044,034	78.2	53.0	141,303,547	6,740,487
Blackberries and dewberries	quarts	8,938,360	43.4	40.3	8,597,110	341,250
Boysenberries	quarts	10,328,023	73.2	70.4	10,136,177	188,846
Raspberries	quarts	6,368,156	30.3	19.1	6,038,888	329,268
Cranberries	barrels	154,301	100.0	13.0	154,301	—
Blueberries	quarts	952,342	43.7	2.9	903,508	48,834
Other berries	acres	509	18.5	13.3	474	35

Z Less than 0.05 percent.

IRRIGATED ACREAGE OF SPECIFIED CROPS AND PASTURE IN THE
17 WESTERN STATES AND LOUISIANA: 1959

The making of estimates using the same procedure by counties or by States would provide different totals. The estimated production for the irrigated acreage where only part of the acreage was irrigated represents 6 percent or more of the total production for only seven crops, sorghums (28 percent), corn (35 percent), hay (6 percent), wheat (25 percent), cotton (13 percent), popcorn (13 percent), and cowpeas for peas (11 percent).

No data are available regarding the production of tree fruits, nuts, and grapes on irrigated land. However, the irrigated acreage of tree fruits, nuts, and grapes represents almost 80 percent of the total acreage in the 18 States and almost 40 percent of the total acreage in the 48 States. The value of the fruit, nut, and grape crops in the 18 States was \$708 million in 1959. A large part of this value was for crops harvested from irrigated land. The value of the tree fruit, nut, and grape crops in the 18 States comprised 55 percent of the value of these crops in the 48 conterminous States. Thus, at least half of the tree fruit, nut, and grape crops in the 48 conterminous States were produced in 1959 on irrigated land in the 18 States.

Data are not available for the production on irrigated land of vegetables harvested for sale. The following table summarizes the acreages of vegetables grown for sale on irrigated land in the 18 States as well as the total acreages of vegetables harvested for sale in the 18 States and in the 48 conterminous States.

Item	Total acreage 48 States	Acreage for 18 States			
		Total	Irrigated total	Irrigated acreage as a percent of total for 48 States	Irrigated acreage as a percent of total for 18 States
All vegetable crops.....	3,486,741	1,439,729	1,113,305	31.9	77.3
Asparagus.....	162,914	100,581	98,993	60.8	98.4
Green snap beans.....	245,983	36,196	29,576	12.1	81.7
Cabbage.....	111,324	38,851	32,719	29.4	84.2
Cantaloups and muskmelons.....	133,751	97,513	90,015	67.3	92.3
Sweet corn.....	617,362	93,597	78,993	12.6	83.4
Lettuce and romaine.....	200,577	181,144	179,937	89.7	99.3
Dry onions.....	101,569	71,692	58,935	58.0	82.2
Green peas.....	334,221	146,445	24,569	7.4	16.5
Tomatoes.....	445,133	218,471	210,698	47.3	96.4
All other.....	1,077,301	455,239	309,770	28.8	68.0
Value of vegetables harvested for sale.....	Dollars 736,244,138	Dollars 370,633,730	NA	NA	NA

NA Not available.

Relation of water used for irrigation and other purposes.—Data on quantity of water used for irrigation purposes are available only for water delivered to farms by irrigation organizations. Irrigation organizations provided water for the irrigation of 12.9 out of the 31.2 million acres irrigated in 1959. Irrigation organizations delivered 54.5 million acre-feet of water to farm irrigation water users. However, 9.8 million acre-feet of water was delivered to farms where water from other sources was also used for irrigation purposes. The average amount of water delivered to farms per acre irrigated, for those irrigation organizations reporting the quantity of water delivered and the acres irrigated for farms receiving water for irrigation purposes from irrigation organizations only, was 3.2 acre-feet per acre irrigated for the 18

States. The acre-feet per acre irrigated reported for their irrigation organizations varied from 1.2 to 4.8 acre-feet per acre in the 18 States. If it is assumed that the average acre-feet used per acre irrigated reported by these irrigation organizations indicate the approximate use of water per acre irrigated for land irrigated for each of the 18 States, then the total quantity of water used for irrigation purposes in the 18 States would be approximately 92 million acre feet in 1959. The conveyance loss of water as reported by irrigation organizations totaled 15.8 million acre-feet. The conveyance loss does not include losses from evaporation and other causes in reservoirs. The area of the principal reservoirs and regulated lakes in the 17 States is 3,446,000 acres and the estimated annual evaporation from these reservoirs and lakes is 12,299,000 acre-feet (Evaporation from the 17 Western States. Geological Survey Professional Paper 272-D, Geological Survey, U.S. Department of the Interior). Thus, the total water withdrawn for irrigation uses in the 18 States was approximately 120 million acre-feet in 1959. The 1958 Census of Manufacturers reported the withdrawal of 2,978 billion gallons or 9 million acre-feet of water in 1959 in the 18 States. However, 92 percent of the water withdrawn by industry was discharged into the stream, etc., and therefore may have been available for reuse.

In the 18 irrigation States, water withdrawn for the use of livestock and poultry and for public use is a small percent of withdrawals for all purposes. A large part of the water withdrawn for industrial use is returned to streams and may be reused but the water delivered to farms for irrigation purposes is not available for reuse because of transpiration and evaporation. Water used for irrigation may have amounted to as much as nine-tenths of the total water consumed in the 18 States.

SUMMARY TABLES

(1)

IRRIGATION OF AGRICULTURAL LANDS

Summary Table 1.—IRRIGATED FARMS—NUMBER AND ACREAGE IRRIGATED BY DIVISIONS AND STATES:
CENSUSES OF 1959, 1954, AND 1950

1	Region, division, and State	Number of irrigated farms						All irrigated land in farms											Increase or decrease (-), 1954-1959
		1959	1954 ¹	1950	Percent of all farms			Acres			Percent of all land in farms			Average per farm (acres)			Increase or decrease (-), 1954-1959		
					1959	1954	1950	1959	1954 ¹	1949	1959	1954	1949	1959	1954	1949	Acres		
																	Percent		
1	U. S.	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2	Continous U.S.	306,532	320,236	305,061	8.3	6.7	5.7	33,021,799	29,552,155	25,787,455	2.9	2.6	2.2	107.7	92.3	84.5	3,469,644	11.7	
3	The North	36,273	27,648	18,348	2.1	1.4	0.8	3,356,861	1,925,423	1,258,321	0.8	0.4	0.3	92.5	69.6	68.6	1,431,438	74.3	
4	The South	63,011	57,185	39,087	3.8	2.5	1.5	7,783,403	7,102,185	4,552,481	2.2	1.8	1.2	123.5	124.2	116.5	681,218	9.6	
5	The West	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
6	Continous area ..	207,248	235,403	247,626	60.5	55.7	53.6	21,881,535	20,524,547	19,976,653	6.4	6.1	6.2	105.6	87.2	80.7	1,356,988	6.6	
Geographic Divisions:																			
7	New England	1,618	2,017	1,581	2.8	2.5	1.5	30,651	38,395	31,450	0.3	0.3	0.3	18.9	19.0	19.9	-7,744	-20.2	
8	Middle Atlantic	4,430	4,333	2,208	2.2	1.7	0.7	148,933	135,886	54,616	0.6	0.5	0.3	33.5	31.4	24.7	12,507	9.2	
9	East North Central	3,334	3,509	2,110	0.6	0.4	0.2	111,376	75,978	36,237	0.1	0.1	(2)	28.3	21.5	17.2	35,798	47.4	
10	West North Central	26,291	17,789	12,449	3.3	2.0	1.3	3,066,441	1,675,564	1,136,018	1.1	0.6	0.4	116.6	94.2	91.3	1,390,877	83.0	
11	South Atlantic	18,924	11,660	6,516	3.2	1.4	0.7	596,944	336,195	381,044	0.7	0.5	0.4	31.5	46.0	58.5	60,649	11.3	
12	East South Central	3,253	4,475	1,80	0.6	0.6	(2)	136,627	185,130	6,950	0.2	0.2	(2)	42.0	41.4	38.6	-48,903	-26.1	
13	West South Central	40,834	41,050	32,391	8.3	6.1	4.2	7,049,932	6,380,860	4,164,487	3.4	3.0	2.0	172.5	155.4	128.6	669,072	10.5	
14	Mountain	96,094	112,231	122,280	64.5	62.3	62.8	12,094,712	11,207,997	11,642,484	4.6	4.3	4.7	125.9	99.9	95.2	886,715	7.9	
15	Pacific	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
16	Continous area ..	111,154	123,172	125,346	57.5	50.8	47.0	9,786,823	9,316,550	8,334,169	12.7	12.2	11.2	88.0	75.6	66.5	470,273	5.0	
New England:																			
17	Maine	138	87	123	0.8	0.4	0.4	2,214	1,097	2,299	0.1	(2)	0.1	16.0	12.6	18.7	1,117	101.8	
18	New Hampshire	76	61	51	1.2	0.6	0.4	1,249	942	622	0.1	0.1	(2)	16.4	15.4	12.2	307	32.6	
19	Vermont	72	55	22	0.6	0.3	0.1	1,612	689	303	0.1	(2)	(2)	22.4	12.5	13.8	923	134.0	
20	Massachusetts	1,093	1,366	1,053	9.8	7.9	4.7	19,999	22,683	18,507	1.8	1.6	1.1	18.3	16.6	17.6	-2,684	-11.8	
21	Rhode Island	34	43	32	2.4	2.1	2.0	406	1,009	1,631	0.3	0.7	0.9	11.9	23.5	31.4	-603	-99.8	
22	Connecticut	205	405	280	2.5	3.2	1.8	5,171	11,975	9,088	0.6	1.1	0.6	25.2	29.6	28.9	-6,804	-56.8	
Middle Atlantic:																			
23	New York	1,741	1,675	888	2.1	1.6	0.7	57,997	59,024	19,248	0.4	0.4	0.1	33.3	35.2	21.7	-1,027	-1.7	
24	New Jersey	1,902	1,775	1,033	12.3	7.8	4.2	73,873	58,912	28,117	5.4	3.5	1.6	38.8	33.2	27.2	14,961	25.4	
25	Pennsylvania	787	883	287	0.8	0.7	0.2	16,523	17,950	7,251	0.1	0.1	0.1	21.0	20.3	25.3	-1,427	-7.9	
East North Central:																			
26	Ohio	575	847	458	0.4	0.5	0.2	11,972	15,379	5,706	0.1	0.1	(2)	20.8	18.2	12.5	-3,407	-22.2	
27	Indiana	480	443	164	0.4	0.3	0.1	17,237	11,738	5,339	0.1	0.1	(2)	35.9	26.5	32.6	5,499	46.8	
28	Illinois	332	266	139	0.2	0.2	0.1	10,127	6,789	1,510	(2)	(2)	(2)	30.5	25.5	10.9	3,338	49.2	
29	Michigan	1,409	1,408	995	1.7	1.0	0.6	40,178	23,473	13,901	0.3	0.1	0.1	21.0	16.7	14.0	16,705	75.1	
30	Wisconsin	638	545	354	0.5	0.4	0.2	31,862	17,199	9,781	0.2	0.1	(2)	49.9	33.4	27.6	13,663	71.2	
West North Central:																			
31	Minnesota	387	347	274	0.3	0.2	0.2	14,991	9,207	4,235	(2)	(2)	(2)	38.7	26.5	15.5	5,784	62.8	
32	Iowa	313	132	76	0.2	0.1	(2)	18,181	2,396	1,386	0.1	(2)	(2)	58.1	18.2	15.5	15,785	658.8	
33	Missouri	590	752	142	0.3	0.4	0.1	29,997	32,998	2,089	0.1	0.1	(2)	50.8	43.9	14.7	-3,041	-9.2	
34	North Dakota	471	399	304	0.9	0.6	0.5	47,656	37,672	35,294	0.1	0.1	0.1	101.2	94.4	116.1	9,984	26.5	
35	South Dakota	923	823	187	1.5	1.2	0.2	115,629	90,571	38,669	0.3	0.2	0.2	115.4	97.9	96.7	25,258	27.9	
36	Nebraska	18,936	12,500	9,680	20.9	12.4	9.0	2,077,926	1,171,369	876,259	4.4	2.5	1.8	109.7	93.7	90.5	906,557	77.4	
37	Kansas	4,592	2,736	1,166	4.4	2.3	0.9	762,101	331,551	138,686	1.5	0.7	0.3	166.0	121.2	118.9	430,550	129.9	
South Atlantic:																			
38	Delaware	156	81	10	3.0	1.3	0.1	15,533	5,553	404	2.0	0.7	(2)	99.6	68.6	40.4	9,980	179.7	
39	Maryland	328	235	30	1.3	0.7	0.1	11,174	8,344	697	0.3	0.2	(2)	34.1	35.5	23.2	2,830	33.9	
40	District of Columbia	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
41	Virginia	1,996	763	71	2.0	0.6	(2)	31,101	21,805	2,817	0.2	0.1	(2)	15.6	28.6	39.7	9,276	42.6	
42	West Virginia	66	62	9	0.1	0.1	(2)	1,115	1,381	40	(2)	(2)	(2)	16.9	22.3	4.4	-266	-19.3	
43	North Carolina	8,537	2,704	96	4.5	1.0	(2)	65,743	25,423	2,083	0.4	0.1	(2)	7.7	9.4	21.7	40,320	158.6	
44	South Carolina	1,398	748	84	1.8	0.6	0.1	24,932	22,009	6,408	0.3	0.2	0.1	17.8	29.4	76.3	2,943	13.4	
45	Georgia	2,194	1,268	139	2.1	0.8	0.1	35,700	23,875	3,161	0.2	0.1	(2)	15.4	18.8	22.7	9,807	41.2	
46	Florida	4,245	5,799	6,075	9.4	10.1	10.7	413,526	427,807	365,421	2.7	2.4	2.2	97.3	73.8	60.2	-14,281	-3.3	
East South Central:																			
47	Kentucky	1,130	1,226	67	0.7	0.6	(2)	8,605	13,434	485	0.1	0.1	(2)	7.6	11.0	7.2	-4,829	-35.9	
48	Tennessee	1,005	1,094	35	0.6	0.5	(2)	10,979	22,548	1,012	0.1	0.1	(2)	10.9	20.6	28.9	-11,569	-51.3	
49	Alabama	328	452	34	0.3	0.3	(2)	17,357	16,658	367	0.1	0.1	(2)	52.9	36.9	10.8	699	4.2	
50	Mississippi	790	1,703	44	0.6	0.8	(2)	99,686	132,490	5,086	0.5	0.6	(2)	126.2	77.8	115.6	-32,804	-24.8	
West South Central:																			
51	Arkansas	5,652	6,218	3,060	5.9	4.3	1.7	711,812	877,863	422,107	4.3	4.8	2.2	125.9	138.0	177.9	-146,051	-17.0	
52	Louisiana	4,817	6,897	7,438	6.5	6.2	6.0	484,850	707,818	576,775	4.7	6.2	5.1	100.7	102.6	105.9	-222,856	-31.5	
53	Oklahoma	2,481	4,466	60,783	7.7	68.7	68.2	7,355,820	645,615	645,037	0.6	0.3	1.4	79.7	66.8	71.1	82,440	82.7	
54	Texas	27,894	26,315	21,427	12.3	9.0	6.5	5,655,638	4,707,028	3,131,534	3.9	3.2	2.2	202.8	178.9	146.1	948,610	20.2	
Mountain:																			
55	Montana	11,935	13,114	13,457	41.2	39.7	38.4	1,876,520	1,890,671	1,716,792	2.9	3.1	2.9	157.1	144.2	127.6	-16,151	-10.9	
56	Idaho	25,383	28,218	29,413	75.4	72.8	72.8	2,976,580	2,324,571	2,137,237	16.9	16.2	16.2	101.5	82.4	72.7	252,009	20.8	
57	Wyoming	6,412	7,130	7,831	63.8	62.5	62.1	1,469,911	1,262,631	1,431,767	4.1	3.6	4.2	229.2	177.1	182.8	207,279	16.6	
58	Colorado	2,312	23,355	27,121	60.8	57.3	59.5	2,668,797	2,622,921	2,872,348	6.9	5.9	7.6	132.2	96.9	105.9	421,836	18.4	
59	Utah	11,690	11,690	11,690	61.4	61.4	61.4	1,169,000	1,169,000	1,169,000	1.7	1.7	1.7	82.4	82.4	82.4	0	0.0	
60	Arizona	5,391	6,809	7,822	74.5	73.1	73.1	1,152,450	1,177,407	963,560	2.9	2.8	2.4	213.8	172.9	123.2	-24,937	-2.1	
61	Utah	15,701	19,406	21,126	88.2	85.0	87.4	1,061,683	1,072,682	1,137,995	8.4	8.7	10.5	67.6	55.3	53.9	-10,999	-7.0	
62	Nevada	2,110	2,509	2,819	89.6	87.8	90.6	246,976	567,498	727,498	5.0	6.9	10.3	297.3	226.2	258.1	-24,922	-24.3	
Pacific:																			
63	Washington	19,292	18,844	16,928	37.4	28.9	24.2	1,006,969	778,139	589,035	5.4	4.4	3.4	52.2	41.3	34.8	228,834	29.4	
64	Oregon	17,774	19,826	17,663	41.6	36.4	29.5	1,084,296	1,450,366	1,306,810	6.5	7.1	6.4	78.3	75.2	74.8	136,083	14.6	
65	Oregon	7,138	8,202	90,795	76.7	60.7	65.2	7,395,597	7,048,049	6,438,287	1.7	1.7	1.7	82.4	82.4	70.9	347,321	29.4	
66	Alaska	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
67	Hawaii	1,251	NA	1,158	20.0	NA	20.1	141,719	NA	117,418	5.7	NA	4.8	112.9	NA	101.			

SUMMARY

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Summary Table 2.—IRRIGATED FARMS—ALL LAND AND IRRIGATED LAND CLASSIFIED
ACCORDING TO USE: CENSUSES OF 1959 AND 1954

State	Number of irrigated farms ¹		All land in irrigated farms ¹ (acres)				Cropland harvested				Cropland used only for pasture, 1959		Cropland not harvested and not pastured, 1959	
	1959	1954	Total		Average per farm		Farms reporting		Acres		Farms reporting	Acres	Farms reporting	Acres
			1959	1954	1959	1954	1959	1954	1959	1954				
All irrigated farms: 18 States, total.	267,431	286,793	213,330,397	190,795,348	797.7	665.3	248,517	265,651	38,481,837	32,662,167	90,658	9,022,909	77,385	9,369,652
Hawaii ²	1,251	NA	958,898	NA	766.5	NA	1,217	NA	109,101	NA	148	70,052	397	94,354
Louisiana.....	4,817	6,897	1,766,593	1,896,951	366.7	275.0	4,811	6,897	597,205	824,309	2,950	602,221	849	49,042
17 Western States, total.....	262,614	279,896	211,563,804	188,898,397	805.6	674.9	243,706	258,754	37,884,632	31,837,858	87,708	8,420,688	76,536	9,320,610
Arizona.....	5,391	6,809	20,261,106	21,025,139	3,758.3	3,087.8	4,736	5,931	1,011,791	1,072,523	1,724	164,954	1,751	347,099
California.....	74,138	84,502	24,029,765	22,967,240	324.1	271.8	65,980	75,324	7,260,791	7,167,153	15,343	2,140,615	13,778	1,343,132
Colorado.....	20,312	23,355	18,687,592	16,592,897	920.0	710.5	19,340	22,152	2,645,655	2,193,396	7,136	798,504	6,175	747,844
Idaho.....	25,383	28,218	9,591,651	8,683,254	377.9	307.7	22,832	25,531	2,575,957	2,350,424	14,088	571,185	4,885	536,144
Kansas.....	4,592	2,736	4,818,612	2,681,618	1,049.3	980.1	4,580	2,721	2,085,855	1,058,550	1,436	128,902	3,525	992,998
Montana.....	11,935	13,114	25,444,553	23,815,899	2,131.9	1,816.1	11,422	12,601	2,428,840	2,346,648	4,235	606,068	4,828	894,912
Nebraska.....	18,936	12,500	10,519,045	6,543,570	555.5	523.5	18,854	12,443	4,439,591	2,529,287	5,220	285,072	8,661	639,019
Nevada.....	2,110	2,509	8,945,608	7,483,187	4,239.6	2,982.5	1,894	2,227	326,956	356,380	1,005	337,058	477	81,874
New Mexico.....	8,850	11,690	12,225,180	11,912,319	1,381.4	1,019.0	8,493	11,372	711,851	669,684	2,758	169,514	2,917	249,694
North Dakota.....	471	399	688,180	389,449	1,461.1	976.1	468	396	162,225	123,749	116	14,834	315	57,911
Oklahoma.....	2,481	1,620	1,744,447	952,253	703.2	587.8	2,463	1,607	589,738	358,942	1,209	95,961	1,650	246,855
Oregon.....	17,724	19,826	13,733,452	13,090,186	774.6	660.3	15,567	17,306	1,596,390	1,608,013	9,265	571,222	4,586	487,921
South Dakota.....	1,002	923	2,243,966	1,851,308	2,239.5	2,005.8	990	917	241,582	227,131	386	43,468	372	45,468
Texas.....	27,884	26,315	24,116,410	19,371,430	864.9	736.1	27,394	25,789	8,347,683	6,626,599	8,230	1,390,515	12,181	1,666,706
Utah.....	15,701	19,406	8,891,138	9,928,400	566.3	511.6	14,713	18,398	935,024	1,035,477	6,092	344,475	4,787	338,287
Washington.....	19,292	18,844	6,216,373	5,013,494	322.2	266.1	17,903	17,329	1,331,151	1,036,169	6,857	319,021	4,413	510,683
Wyoming.....	6,412	7,130	19,406,526	16,596,754	3,026.6	2,327.7	6,077	6,710	1,193,552	1,077,193	2,608	438,520	1,235	134,063
Farms with all harvested crore irrigated: 18 States, total.	178,029	200,892	105,108,816	95,664,848	590.4	476.2	178,029	200,892	18,747,587	17,379,324	53,188	4,558,410	40,595	2,920,663
Hawaii ²	1,081	NA	324,087	NA	299.8	NA	1,081	NA	34,408	NA	108	61,963	316	30,063
Louisiana.....	2,669	4,215	663,762	1,042,781	248.7	247.4	2,669	4,215	256,312	511,640	1,485	263,082	428	17,450
17 Western States, total.....	175,360	196,677	104,445,054	94,622,067	595.6	481.1	175,360	196,677	18,491,275	16,867,684	51,703	4,295,328	40,167	2,903,213
Arizona.....	4,614	5,822	7,919,362	7,739,135	1,716.4	1,329.3	4,614	5,822	984,884	1,057,865	1,183	123,999	1,644	321,687
California.....	58,505	65,164	12,904,149	11,776,534	220.6	180.7	58,505	65,164	5,361,401	4,931,465	8,515	99,295	10,719	764,544
Colorado.....	15,988	17,975	12,474,206	10,551,257	780.2	587.0	15,988	17,975	1,768,165	1,456,655	5,540	547,622	3,970	205,780
Idaho.....	19,651	21,616	5,716,940	5,171,686	290.9	239.3	19,651	21,616	1,799,481	1,588,161	11,264	373,701	2,857	132,770
Kansas.....	542	447	249,028	208,044	459.5	466.2	542	447	130,285	67,895	507	5,832	305	38,675
Montana.....	6,618	7,602	10,607,464	10,276,046	1,602.8	1,351.8	6,618	7,602	964,137	969,393	2,511	315,409	1,604	102,065
Nebraska.....	3,327	3,129	954,634	825,037	286.9	263.7	3,327	3,129	451,929	359,369	619	31,720	664	28,222
Nevada.....	1,786	2,154	6,408,697	6,475,593	3,588.3	3,006.3	1,786	2,154	278,727	334,797	824	272,376	417	70,341
New Mexico.....	7,713	10,488	8,032,934	6,530,875	1,041.5	622.7	7,713	10,488	548,346	518,953	2,261	134,054	2,491	176,517
North Dakota.....	139	150	40,603	35,037	292.1	233.6	139	150	18,338	17,118	38	952	47	3,128
Oklahoma.....	290	211	160,448	103,172	553.3	489.0	290	211	20,200	13,513	88	5,769	137	32,821
Oregon.....	9,477	10,748	6,067,640	5,655,879	640.2	526.2	9,477	10,748	691,255	690,001	4,532	271,017	2,002	96,864
South Dakota.....	358	296	361,506	246,968	1,009.8	834.4	358	296	43,989	28,457	146	11,329	109	7,429
Texas.....	14,507	15,943	8,984,114	9,682,605	613.9	607.3	14,507	15,943	3,149,427	2,871,227	3,191	523,953	6,027	623,958
Utah.....	12,507	15,386	6,453,264	6,212,379	516.0	403.8	12,507	15,386	664,783	661,420	4,656	258,719	3,523	156,504
Washington.....	14,317	14,184	2,576,581	1,926,547	180.0	135.8	14,317	14,184	690,324	504,999	4,154	137,555	2,889	92,093
Wyoming.....	5,021	5,362	14,533,524	11,204,913	2,894.5	2,089.7	5,021	5,362	925,604	796,436	2,074	322,026	762	49,215

NA Not available.

¹Data for 1959 are for farms reporting any land irrigated in 1959. Data for 1954 are for farms reporting irrigated cropland harvested and/or pasture, except for Arkansas, Louisiana, and Southern Missouri where irrigated pasture was not included on the questionnaire.²Not included in 18 States total.

IRRIGATION OF AGRICULTURAL LANDS

Summary Table 2.—IRRIGATED FARMS—ALL LAND AND IRRIGATED LAND CLASSIFIED
ACCORDING TO USE: CENSUSES OF 1959 AND 1954—Continued

State	Woodland pastured, 1959 (acres)	Woodland not pastured, 1959 (acres)	Other pasture (not cropland and not woodland), 1959				Other land (house lots, roads, waste- land, etc.), 1959 (acres)	Cropland, total (acres)		Woodland, total		
			Total		Improved			1959	1954	Farms reporting, 1959	Acres	
			Farms reporting	Acres	Farms reporting	Acres					1959	1954
All irrigated farms: 18 States, total.	15,080,172	1,674,090	104,325	129,524,525	36,289	4,187,490	10,177,212	56,874,398	46,768,160	27,591	16,754,262	16,893,482
Hawaii*.....	20,245	136,412	101	381,200	38	43,457	147,534	273,507	NA	120	156,657	NA
Louisiana.....	154,435	96,877	954	191,363	256	38,254	75,450	1,248,468	1,401,097	1,500	251,312	316,444
17 Western States, total...	14,925,737	1,577,213	103,371	129,333,162	36,033	4,149,236	10,101,762	55,625,930	45,367,063	26,091	16,502,950	16,577,038
Arizona.....	3,560,770	61,404	1,298	12,510,461	324	185,538	2,604,627	1,523,844	1,521,153	143	3,622,174	3,741,998
California.....	1,969,007	430,806	12,956	9,574,934	7,517	707,978	1,310,480	10,744,538	10,399,616	4,155	2,399,813	2,576,008
Colorado.....	1,234,287	106,480	10,054	12,416,301	3,279	394,306	738,521	4,192,003	3,625,832	2,111	1,340,767	1,331,008
Idaho.....	481,626	41,895	11,295	4,639,027	5,675	332,651	745,817	3,683,286	3,278,844	1,155	523,521	384,365
Kansas.....	9,555	11,044	3,066	1,473,133	320	59,568	117,125	3,207,755	1,636,896	541	20,599	17,046
Montana.....	1,367,199	131,409	9,256	18,639,531	3,623	367,290	1,376,594	3,929,820	3,472,801	2,466	1,498,608	1,102,952
Nebraska.....	56,010	25,244	12,740	4,724,046	1,444	114,815	349,263	5,364,482	3,024,551	2,014	81,254	46,246
Nevada.....	27,177	15,747	1,233	7,708,923	545	223,886	447,873	745,888	642,121	99	42,924	56,702
New Mexico.....	1,587,903	103,201	3,213	9,022,303	479	114,016	380,714	1,131,059	1,054,015	784	1,691,104	1,503,640
North Dakota.....	10,759	2,521	338	417,922	56	6,009	22,008	234,970	162,761	111	13,280	9,518
Oklahoma.....	58,146	12,638	1,696	692,034	244	35,566	49,215	932,554	487,136	492	70,784	79,746
Oregon.....	2,152,654	313,574	7,220	8,310,474	3,182	282,980	301,217	2,655,533	2,383,356	5,517	2,466,228	2,735,378
South Dakota.....	34,880	2,493	820	1,839,890	131	13,606	36,185	330,518	277,723	142	37,373	23,618
Texas.....	909,959	84,004	9,488	11,222,331	1,565	640,348	495,172	11,404,904	8,644,954	1,988	994,003	1,131,253
Utah.....	503,404	29,192	8,209	6,417,674	2,909	234,586	323,082	1,617,786	1,611,374	755	532,596	843,466
Washington.....	742,652	197,513	5,701	2,861,601	2,696	76,570	253,752	2,160,855	1,610,152	3,104	940,165	802,431
Wyoming.....	219,749	8,008	4,788	16,862,517	2,044	359,523	550,117	1,766,135	1,533,778	514	227,757	191,663
Farms with all harvest- ed crops irrigated: 18 States, total.	6,275,203	668,206	53,885	66,802,862	20,902	2,131,565	5,136,481	26,226,660	23,606,919	11,822	6,943,409	6,498,617
Hawaii*.....	14,509	40,024	68	75,399	26	5,112	67,721	126,434	NA	95	54,533	NA
Louisiana.....	24,849	15,555	374	52,989	59	3,640	33,525	536,844	851,250	653	40,404	105,311
17 Western States, total...	6,250,354	652,651	53,511	66,749,873	20,843	2,127,925	5,102,956	25,689,816	22,755,669	11,169	6,903,005	6,393,306
Arizona.....	1,048,075	10,033	995	5,247,540	194	45,606	183,144	1,430,570	1,439,023	109	1,058,108	974,486
California.....	720,030	185,289	5,852	4,138,068	2,936	308,926	755,522	7,085,240	6,417,983	1,920	905,319	916,117
Colorado.....	851,634	68,396	7,264	8,518,972	2,442	306,533	514,233	2,521,567	2,214,037	1,596	920,030	910,606
Idaho.....	182,745	12,787	7,941	2,787,152	4,008	196,497	428,304	2,305,952	2,029,184	595	195,532	122,484
Kansas.....	497	169	156	64,847	25	2,909	8,723	174,792	103,686	16	666	1,218
Montana.....	690,470	69,741	4,848	7,286,191	2,232	213,160	1,179,451	1,381,611	1,288,956	1,331	760,211	538,676
Nebraska.....	2,292	1,590	1,527	392,821	266	10,638	46,060	511,871	408,069	134	3,882	3,318
Nevada.....	19,140	10,898	1,016	5,334,888	450	173,252	421,687	622,044	593,652	82	30,038	54,707
New Mexico.....	864,014	88,534	2,594	6,026,976	374	63,610	194,493	858,917	763,028	591	952,548	368,367
North Dakota.....	1,705	176	50	13,029	12	119	3,274	22,418	22,145	26	1,882	3,258
Oklahoma.....	6,566	736	128	91,731	23	2,483	2,625	58,790	24,121	38	7,302	9,706
Oregon.....	898,869	105,742	3,587	3,849,611	1,513	104,040	154,282	1,059,136	937,862	2,029	1,004,611	1,246,753
South Dakota.....	2,129	108	291	287,439	50	4,085	9,083	62,747	36,281	35	2,237	1,458
Texas.....	259,688	18,087	3,755	4,168,137	641	156,091	240,864	4,297,338	3,766,015	569	277,775	384,166
Utah.....	345,069	17,216	6,296	4,713,472	2,330	178,658	297,501	1,080,006	947,218	556	362,285	548,934
Washington.....	233,054	58,200	3,590	1,197,842	1,741	45,430	167,513	919,972	665,901	1,213	291,254	208,555
Wyoming.....	124,376	4,949	3,621	12,611,157	1,606	315,888	496,197	1,296,845	1,048,508	329	129,325	100,497

NA Not available.

* Not included in 18 States total.

SUMMARY

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Summary Table 2.—IRRIGATED FARMS—ALL LAND AND IRRIGATED LAND CLASSIFIED
ACCORDING TO USE: CENSUSES OF 1959 AND 1954—Continued

State	Land pastured, total (acres)		Irrigated land ¹											
			All irrigated land				Irrigated cropland harvested							
	1959	1954	Acres		Average acres per irrigated farm	Farms reporting		Acres		Percent of total cropland har- vested all farms		Average acres per farm reporting		
			1959	1954		1959	1954	1959	1954	1959	1954	1959	1954	
All irrigated farms: 18 States, total.	153,627,606	144,118,764	31,222,967	27,678,507	116.8	96.5	242,418	259,416	26,198,581	23,262,090	18.1	14.9	108.1	89.7
Hawaii [*]	471,497	NA	141,179	NA	112.9	NA	1,206	NA	72,703	NA	41.2	NA	60.3	NA
Louisiana.....	948,019	794,904	484,850	707,818	100.7	102.6	4,783	6,897	481,843	707,818	19.9	23.5	100.7	102.6
17 Western States, total...	152,679,587	143,323,860	30,738,117	26,970,689	117.0	96.4	237,635	252,519	25,716,738	22,554,272	18.1	14.7	108.2	89.3
Arizona.....	16,236,185	18,887,766	1,152,450	1,177,407	213.8	172.9	4,678	5,922	991,634	1,064,919	97.3	97.4	212.0	179.8
California.....	13,684,556	13,040,494	7,395,570	7,048,049	99.8	83.4	64,200	73,250	6,216,950	5,948,068	77.5	71.4	96.8	81.2
Colorado.....	14,449,092	12,862,827	2,684,757	2,262,921	132.2	96.9	19,166	21,949	2,106,970	1,770,249	35.8	33.9	109.9	80.6
Idaho.....	5,691,838	5,287,435	2,576,580	2,324,571	801.5	82.4	22,515	25,133	2,064,976	1,854,573	53.9	49.8	91.7	73.8
Kansas.....	1,611,990	1,041,935	762,101	331,551	166.0	121.2	4,517	2,661	684,146	309,877	3.3	1.4	151.5	116.4
Montana.....	20,612,798	20,406,529	1,874,520	1,890,671	157.1	144.2	11,189	12,372	1,456,852	1,480,061	17.9	17.6	130.2	119.6
Nebraska.....	5,065,928	3,457,118	2,077,926	1,171,369	109.7	93.7	18,804	12,378	2,021,858	1,131,344	11.2	6.0	107.5	91.4
Nevada.....	8,073,158	6,914,221	542,976	567,498	297.3	226.2	1,882	2,221	302,038	348,246	89.5	96.7	160.5	156.8
New Mexico.....	10,779,720	10,738,527	731,835	649,615	82.7	55.6	8,431	11,330	622,983	592,105	57.8	52.2	73.9	52.2
North Dakota.....	443,515	216,753	47,656	37,672	101.2	94.4	454	383	44,699	33,845	0.2	0.2	98.5	88.4
Oklahoma.....	846,201	497,914	197,632	108,151	79.7	66.8	2,405	1,556	181,764	98,929	2.0	1.0	75.6	63.6
Oregon.....	11,034,350	10,525,455	1,384,284	1,490,366	78.1	75.2	13,926	15,607	967,766	1,006,566	31.0	30.8	69.5	64.5
South Dakota.....	1,918,238	1,569,101	115,629	90,371	115.4	97.9	972	879	102,302	78,236	0.7	0.4	105.2	89.0
Texas.....	13,522,805	11,402,629	5,655,638	4,707,028	202.8	178.9	27,096	25,481	5,338,890	4,497,917	24.0	18.1	197.0	176.5
Utah.....	7,265,553	8,113,824	1,061,683	1,072,682	67.6	55.3	14,561	18,239	771,221	799,885	72.6	65.1	53.0	43.8
Washington.....	3,923,274	3,267,044	1,006,969	778,135	52.2	41.3	16,800	16,506	792,362	600,219	18.0	13.8	47.2	36.3
Wyoming.....	17,520,786	15,094,288	1,469,911	1,262,632	229.2	177.1	6,039	6,652	1,049,327	939,233	62.5	60.4	173.8	141.2
Farms with all harvest- ed crops irrigated: 18 States, total.	77,636,475	71,911,248	22,142,351	20,289,488	124.4	101.0	178,029	200,892	18,747,587	17,379,324	13.0	11.1	105.3	86.5
Hawaii [*]	151,871	NA	65,209	NA	60.3	NA	1,081	NA	34,408	NA	19.5	NA	31.8	NA
Louisiana.....	340,920	405,086	256,660	511,640	96.2	121.4	2,669	4,215	256,312	511,640	10.6	17.0	96.0	121.4
17 Western States, total...	77,295,555	71,506,162	21,885,691	19,777,848	124.8	100.6	175,360	196,677	18,491,275	16,867,684	13.0	11.0	105.4	85.8
Arizona.....	6,419,614	6,117,265	1,080,550	1,110,868	234.2	190.8	4,614	5,822	984,884	1,057,865	96.7	96.7	213.5	181.7
California.....	5,837,393	5,317,258	6,007,864	5,481,617	102.7	84.1	58,505	65,164	5,361,401	4,931,465	66.8	59.2	91.6	75.7
Colorado.....	9,918,228	8,269,838	2,245,613	1,856,195	140.4	103.3	15,988	17,975	1,768,165	1,456,655	30.1	27.9	110.6	81.0
Idaho.....	3,343,598	3,076,286	2,203,704	1,958,780	112.1	90.6	19,651	21,616	1,799,481	1,588,161	47.0	42.6	91.6	73.5
Kansas.....	71,176	106,722	143,620	71,075	265.0	159.0	542	447	130,285	67,895	0.6	0.3	240.4	151.9
Montana.....	8,292,070	9,047,346	1,260,149	1,259,013	190.4	165.6	6,618	7,602	964,137	969,393	11.8	11.5	145.7	127.5
Nebraska.....	426,833	401,761	469,876	379,188	141.2	121.2	3,327	3,129	451,929	359,369	2.5	1.9	135.8	114.9
Nevada.....	5,626,404	5,947,113	461,494	518,442	258.4	240.7	1,786	2,154	278,727	334,797	82.6	93.0	156.1	155.4
New Mexico.....	7,025,044	5,743,377	634,542	555,790	82.3	53.0	7,713	10,488	548,346	518,953	50.9	45.7	71.1	49.5
North Dakota.....	15,687	10,593	19,404	18,293	139.6	122.0	139	150	18,338	17,118	0.1	0.1	131.9	114.1
Oklahoma.....	104,066	84,230	22,339	14,627	77.0	69.3	290	211	20,200	13,513	0.2	0.1	69.7	64.0
Oregon.....	5,019,497	4,603,159	912,927	975,623	96.3	90.8	9,477	10,748	691,255	690,001	22.2	21.1	72.9	64.2
South Dakota.....	300,897	211,282	50,928	33,093	142.3	111.8	358	296	43,989	28,457	0.3	0.2	122.9	96.1
Texas.....	4,951,778	6,129,591	3,353,984	2,972,101	231.1	186.4	14,507	15,943	3,149,427	2,871,227	14.2	11.5	217.1	180.1
Utah.....	5,317,260	5,123,714	902,681	883,644	72.2	57.4	12,507	15,386	664,783	661,420	62.6	53.8	53.2	43.0
Washington.....	1,568,451	1,186,890	828,395	624,958	57.9	44.1	14,317	14,184	690,324	504,959	15.6	11.6	48.2	35.6
Wyoming.....	13,097,559	10,129,437	1,287,621	1,064,541	256.4	198.5	5,021	5,362	925,604	796,436	55.1	51.2	184.3	148.5

NA Not available.

¹Data for 1959 are for farms reporting any land irrigated in 1959. Data for 1954 are for farms reporting irrigated cropland harvested and/or pasture, except for Arkansas, Louisiana, and Southeastern Missouri where irrigated pasture was not included on the questionnaire.

* Not included in 18 States total.

6 IRRIGATION OF AGRICULTURAL LANDS

Summary Table 2.—IRRIGATED FARMS—ALL LAND AND IRRIGATED LAND CLASSIFIED
ACCORDING TO USE: CENSUSES OF 1959 AND 1954—Continued

State	Irrigated land ¹ —Continued		Irrigated farms by total acres of cropland harvested, 1959										1,000 or more acres	No cropland harvested
	Irrigated pasture (acres) ²		1 to 9 acres	10 to 19 acres	20 to 29 acres	30 to 49 acres	50 to 99 acres	100 to 199 acres	200 to 499 acres	500 to 999 acres				
	1959	1954												
All irrigated farms:														
18 States, total.....	5,024,386	4,416,417	43,695	25,497	16,127	24,936	39,632	43,643	39,665	11,107	4,215	18,914	34,600	
Hawaii ³	68,476	NA	1,064	86	20	15	1	3	4	2	22	34	6	
Louisiana.....	3,007	NA	912	366	307	491	842	942	804	108	39	6	1	
17 Western States, total.....	5,021,379	4,416,417	42,783	25,131	15,820	24,445	38,790	42,701	38,861	10,999	4,176	18,908	34,594	
Arizona.....	160,816	112,488	968	472	290	478	629	672	742	313	172	655	112	
California.....	1,178,620	1,099,981	20,325	10,435	5,486	7,913	8,398	5,893	4,653	1,796	1,081	8,158	14,711	
Colorado.....	577,787	492,672	2,280	1,582	1,093	1,858	3,904	4,969	2,912	560	182	972	1,511	
Idaho.....	511,604	469,998	1,786	1,619	1,625	3,037	6,827	5,093	2,280	426	139	2,551	4,090	
Kansas.....	77,955	21,674	122	45	38	68	244	689	1,912	1,071	391	12	1	
Montana.....	417,668	410,610	687	542	481	968	2,278	2,952	2,490	724	300	513	825	
Nebraska.....	56,068	40,025	186	134	125	312	1,888	7,007	8,173	865	164	82	1	
Nevada.....	240,938	219,252	215	176	146	233	379	344	278	72	51	216	34	
New Mexico.....	108,852	57,510	2,783	1,290	629	800	1,075	937	749	187	43	357	54	
North Dakota.....	2,957	3,827	14	8	7	11	47	121	168	66	26	3	1	
Oklahoma.....	15,868	9,222	111	47	39	138	473	694	682	215	64	18	1	
Oregon.....	416,518	483,800	3,445	1,968	1,421	2,073	2,784	2,024	1,324	363	165	2,157	3,411	
South Dakota.....	13,327	12,135	41	20	19	41	140	324	316	68	21	12	1	
Texas.....	316,748	209,111	1,844	1,401	885	1,288	2,488	5,474	9,282	3,648	1,084	490	1,212	
Utah.....	290,462	272,797	2,543	2,111	1,646	2,526	3,320	1,817	632	92	26	988	1,511	
Washington.....	214,607	177,916	5,239	3,055	1,656	2,200	2,629	1,781	974	235	134	1,389	2,157	
Wyoming.....	420,584	323,399	194	226	234	501	1,287	1,910	1,294	298	133	335	544	
Farms with all harvested crops irrigated:														
18 States, total.....	3,394,764	2,910,164	40,254	22,665	13,666	20,613	30,900	27,103	17,139	4,124	1,565	...	...
Hawaii ³	30,801	NA	977	63	14	10	1	2	3	2	9	...	...
Louisiana.....	348	NA	646	199	134	241	511	540	397	38	3	...	...
17 Western States, total.....	3,394,416	2,910,164	39,608	22,466	13,332	20,372	30,389	26,563	16,782	4,086	1,562	...	...
Arizona.....	95,666	53,003	916	453	282	467	621	665	736	307	167	...	...
California.....	646,462	550,152	19,182	9,732	4,943	7,122	7,327	4,859	3,468	1,187	685	...	...
Colorado.....	477,448	399,540	2,187	1,493	988	1,642	3,352	4,064	1,940	249	73	...	...
Idaho.....	404,223	370,619	1,698	1,522	1,532	2,800	6,231	4,185	1,451	185	47	...	...
Kansas.....	13,335	3,180	97	21	20	19	62	84	162	65	12	...	...
Montana.....	296,012	289,620	629	442	389	740	1,607	1,652	894	168	97	...	...
Nebraska.....	17,947	19,819	162	94	81	162	774	1,442	573	35	4	...	...
Nevada.....	182,767	183,645	206	171	146	220	356	327	258	67	35	...	...
New Mexico.....	86,196	36,837	2,653	1,216	572	737	970	830	593	118	24	...	...
North Dakota.....	1,066	1,175	8	2	3	5	33	65	22	1	...	...	...
Oklahoma.....	2,139	1,114	85	22	12	45	61	42	19	4	...	...	...
Oregon.....	221,672	285,622	2,716	1,311	878	1,242	1,615	1,028	530	109	48	...	...
South Dakota.....	6,939	4,636	29	14	14	22	80	138	60	1	...	...	...
Texas.....	204,557	100,874	1,691	1,179	680	890	1,493	2,911	4,114	1,299	250	...	...
Utah.....	237,898	222,224	2,420	1,927	1,471	2,201	2,727	1,355	363	34	9	...	...
Washington.....	138,071	119,999	4,745	2,655	1,311	1,614	1,971	1,353	609	50	9	...	...
Wyoming.....	362,017	268,105	184	212	210	444	1,109	1,563	990	207	102	...	...

NA Not available.
¹Data for 1959 are for farms reporting any land irrigated in 1959. Data for 1954 are for farms reporting irrigated cropland harvested and/or pasture, except for Arkansas, Louisiana, and Southeastern Missouri where irrigated pasture was not included on the questionnaire.
²Other irrigated land (not cropland harvested).
 * Not included in 18 States total.

Summary Table 3.—FARMS REPORTING AND ACRES OF LAND AND SELECTED CROPS—IRRIGATION FOR 18 STATES:
1959

Item or crop	Farms reporting					Acres in farm or crop					
	Total for 18 States	All or part of crop irrigated	All of crop irrigated	Part of crop irrigated	No part of crop irrigated	Total for 18 States	All or part of crop irrigated	All of crop irrigated	Part of crop irrigated	No part of crop irrigated	Percent irrigated
All farms.....	1,044,166	242,433	178,029	64,404	24,998	xxx	xxx	xxx	xxx	xxx	xxx
Land in farms.....	xxx	xxx	xxx	xxx	xxx	714,860,571	213,330,397	105,108,816	93,895,886	15,826,185	4.4
Irrigated farms.....	267,431	242,433	178,029	64,404	24,998	xxx	xxx	xxx	xxx	xxx	xxx
All land.....	xxx	xxx	xxx	xxx	xxx	1,015,108,616	197,504,216	105,108,816	93,895,886	15,826,185	14.6
Irrigated land.....	xxx	xxx	xxx	xxx	xxx	31,222,967	30,275,761	22,142,351	8,138,410	947,206	xxx
Cropland harvested.....	248,517	242,433	178,029	64,404	NA	38,481,837	37,836,891	18,747,587	19,089,304	644,946	68.1
Irrigated cropland harvested.....	xxx	xxx	xxx	xxx	xxx	26,198,581	26,198,581	18,747,587	7,450,994	xxx	xxx
Land other than cropland irrigated.....	NA	NA	NA	NA	NA	5,024,386	NA	3,394,764	682,416	947,206	2.9
All specified crops harvested, total ¹	NA	NA	NA	NA	NA	145,919,684	26,640,234	23,560,674	3,079,560	119,279,450	18.3
FIELD CROPS											
All field crops harvested, total.....	NA	NA	NA	NA	NA	142,385,375	23,880,618	20,884,087	2,996,531	118,504,757	16.8
Corn for all purposes.....	331,676	52,518	42,441	10,077	279,138	17,226,242	2,582,552	1,857,738	724,814	14,643,690	15.0
Sorghum for all purposes including sirup.....	231,755	27,704	18,537	9,167	204,051	16,675,042	2,887,983	2,132,887	755,096	13,787,059	17.3
Small grains harvested, total.....	NA	NA	NA	NA	NA	64,882,038	5,251,160	4,703,047	548,113	59,630,878	8.1
All wheat.....	NA	NA	NA	NA	NA	29,405,930	1,760,700	1,328,536	432,164	27,645,230	4.5
Winter wheat.....	243,509	18,652	14,705	3,947	224,857	28,588,544	1,226,427	829,224	397,203	27,362,117	4.3
Spring wheat.....	NA	NA	NA	NA	NA	10,817,386	534,273	499,312	34,961	10,283,113	4.9
Oats.....	207,864	20,205	19,539	666	187,659	7,965,568	381,374	364,322	17,052	7,584,194	4.8
Barley.....	177,213	34,393	31,904	2,469	142,820	12,111,391	1,656,001	1,564,680	91,312	10,455,390	13.7
Rye.....	22,686	713	676	37	21,972	903,175	14,865	14,003	862	199,690	1.6
Flaxseed.....	34,027	269	263	6	33,758	2,388,420	37,760	37,623	137	2,350,660	1.6
Rice.....	6,806	6,806	6,806	...	...	1,198,088	1,198,088	1,198,088	...	...	100.0
Other grains.....	NA	NA	NA	NA	NA	909,466	202,372	196,386	5,986	707,094	22.3
Soybeans harvested for all purposes.....	40,825	1,413	1,298	115	39,412	1,412,504	58,087	54,738	3,349	1,354,417	4.1
Cowpeas harvested for all purposes ²	13,735	451	428	23	13,284	193,783	12,880	11,837	943	181,003	6.6
Peanuts harvested for all purposes.....	16,630	1,248	1,007	241	15,382	362,107	47,166	37,698	9,508	314,941	13.0
For beans.....	15,280	14,108	13,996	112	1,172	830,337	663,172	654,971	8,201	167,365	79.8
Dry field and seed peas harvested for peas.....	3,620	1,398	1,390	8	2,222	336,419	47,906	47,388	518	288,513	14.2
Hay cut, total.....	NA	NA	NA	NA	NA	28,193,290	7,279,157	6,796,002	483,155	20,914,133	25.8
Alfalfa and mixtures.....	305,372	101,148	94,047	7,101	204,224	11,956,343	4,629,073	4,343,682	285,391	7,327,270	38.7
Clover, timothy, and mixtures.....	48,205	14,497	13,344	1,153	33,708	1,699,501	875,279	821,282	53,997	824,222	48.2
Lepgods.....	9,440	30	30	...	9,410	3,460,130	3,420	3,420	...	199,690	0.3
Vetch or peas.....	1,803	153	134	19	1,650	31,097	3,526	3,034	492	27,571	11.3
Oats, wheat, and other small grains.....	78,266	10,760	10,298	462	67,506	2,423,603	240,817	228,674	12,143	2,182,786	9.9
Wild hay.....	140,021	7,350	6,576	774	132,671	9,663,410	1,217,958	1,209,612	108,346	8,345,452	13.6
Other hay.....	84,010	4,271	3,906	365	79,729	2,071,365	165,480	148,065	17,315	1,903,785	8.0
Grass silage.....	6,415	1,385	1,193	192	5,030	187,861	46,504	41,233	5,271	141,357	24.8
Field seeds harvested, total.....	NA	NA	NA	NA	NA	1,584,808	391,546	383,775	7,771	1,193,362	24.7
Alfalfa seed.....	20,183	3,469	3,426	33	16,714	622,730	244,432	242,421	2,011	378,298	39.3
Red clover seed.....	7,226	2,564	2,597	7	4,662	112,522	41,972	41,886	86	70,550	37.3
Sweetclover seed.....	3,794	142	141	1	3,652	67,067	3,027	3,015	12	64,040	4.5
Other field seeds.....	NA	NA	NA	NA	NA	782,589	102,115	96,453	5,662	680,474	13.0
Cotton harvested.....	136,417	35,163	29,991	5,172	101,254	8,585,554	3,370,007	2,923,665	446,342	5,215,547	39.3
Irish potatoes harvested.....	93,377	14,025	13,942	83	79,332	570,297	443,002	439,687	3,315	127,279	77.7
Sweetpotatoes harvested.....	29,738	933	902	31	28,805	91,552	12,677	12,341	336	78,785	13.8
Sugar beets harvested.....	18,318	17,847	17,815	32	471	735,280	701,142	699,865	1,277	34,138	95.4
Hops harvested.....	425	408	403	5	17	33,115	32,736	32,430	306	379	989
Popcorn harvested.....	1,832	232	210	22	1,600	20,277	5,096	4,437	659	15,181	25.1
All other field crops harvested.....	NA	NA	NA	NA	NA	652,430	94,449	91,621	2,828	557,981	14.5
VEGETABLES											
Vegetables harvested for sale, total.....	37,410	19,159	18,956	203	18,251	1,439,729	1,113,305	1,105,592	7,713	326,424	77.3
Asparagus.....	1,366	1,234	1,226	8	132	100,581	98,993	97,414	1,579	1,988	98.4
Green snap beans.....	5,632	2,492	2,473	19	3,140	36,196	29,576	29,321	255	6,620	81.7
Cabbage.....	3,377	2,140	2,125	15	1,437	38,851	32,719	32,493	226	64.2	84.2
Cauliflower and mushrooms ³	4,973	2,122	2,108	14	2,851	97,513	90,018	89,638	477	7,498	92.3
Sweet corn.....	10,501	5,616	5,563	53	4,885	93,597	78,093	76,679	1,414	15,504	83.4
Lettuce and romaine.....	2,331	2,081	2,066	15	250	181,144	179,397	179,299	638	1,207	99.3
For onions.....	4,082	3,018	2,995	23	1,064	72,692	58,935	58,690	245	12,757	82.2
Green peas (English).....	2,424	1,541	1,533	8	883	146,445	24,307	24,307	262	121,876	16.8
Tomatoes.....	13,483	6,984	6,936	48	6,499	218,471	210,698	210,110	588	7,773	96.4
All other vegetables harvested for sale.....	NA	NA	NA	NA	NA	455,239	309,770	307,671	2,099	145,469	68.0
FRUITS AND NUTS											
Berries and other small fruits harvested for sale, total.....	NA	NA	NA	NA	NA	65,386	33,618	32,213	1,405	31,768	51.4
Strawberries.....	9,916	3,807	3,675	132	6,109	38,043	23,874	22,787	1,087	14,169	62.8
Blackberries and dewberries.....	3,624	810	785	25	2,814	7,428	2,043	1,965	78	5,285	27.5
Raspberries.....	1,544	635	635	7	872	4,166	2,679	2,630	49	1,487	64.3
Blueberries.....	4,664	1,636	1,636	28	3,028	10,147	6,669	6,669	2,531	7,478	26.3
Cranberries.....	352	352	352	...	...	1,493	1,493	1,493	...	...	100.0
Blueberries.....	382	140	136	4	242	1,355	351	333	18	1,004	25.9
Other berries.....	NA	NA	NA	NA	NA	2,754	509	474	35	2,245	18.5
Tree fruits, nuts, and grapes, total.....	113,994	60,260	59,750	510	53,734	2,029,194	1,612,693	1,598,782	73,911	416,501	79.5

NA Not available.

¹Nursery and greenhouse products (horticultural specialties) are the only excluded crops.²Cowpeas for fresh market, or for canning, freezing or other processing are excluded.³Sorghum hay and annual legume hays (sorghum, cowpea, peanut, etc.) are excluded.⁴Data for honeydew melons, reported separately in Arizona, included with cantaloups.

Summary Table 4.—IRRIGATION CROP SUMMARY¹—FARMS REPORTING, ACREAGE, TOTAL

[Data for 1959 and 1954 are not fully]

Item	Farms reporting						Acres					
	1959			1954			1959			1954		
	Irrigated ¹		Nonirrigated ²	Irrigated ¹		Nonirrigated ²	Irrigated ¹		Nonirrigated ²	Irrigated ¹		Nonirrigated ²
	Total	Percent of total for item		Total	Percent of total for item		Total	Percent of total for item		Total	Percent of total for item	
1 All farms and all land in farms.....	267,431	25.6	776,735	286,793	22.2	1,004,453	31,222,967	4.4	683,637,604	27,678,507	3.9	686,867,473
2 Cropland harvested.....	242,418	28.9	596,250	259,416	25.1	772,180	26,198,581	18.1	118,216,430	23,262,090	14.9	133,867,363
3 Irrigated farms and land in farms.....	267,431	100.0	NA	286,793	100.0	NA	31,222,967	14.6	182,107,252	27,678,507	14.5	163,116,841
4 Cropland harvested.....	242,418	97.5	6,099	259,416	97.7	6,235	26,198,581	68.1	12,283,256	23,262,090	71.2	9,400,977
5 All other land in irrigated farms.....	24,998	100.0	NA	27,377	100.0	NA	5,024,386	2.9	169,826,174	4,416,417	2.8	153,716,764
CROPS HARVESTED												
6 All specified crops harvested.....	NA	NA	NA	NA	NA	NA	23,560,674	16.1	122,359,010	21,681,465	13.7	136,423,540
Field Crops												
7 All field crops harvested.....	NA	NA	NA	NA	NA	NA	20,884,087	14.7	121,501,288	19,342,491	12.5	135,428,313
8 Corn for all purposes.....	42,441	12.8	289,235	37,565	8.7	392,121	1,857,738	10.8	15,368,504	877,074	5.0	16,812,743
9 Harvested for grain.....bushels.....	27,309	10.0	245,279	20,713	6.0	322,308	1,363,403	10.2	12,030,597	546,494	3.8	13,726,352
10 Sorghum for all purposes, including sirup.....	16,537	8.0	213,218	17,426	6.7	241,984	2,132,887	12.8	14,542,155	1,647,523	9.8	15,162,745
11 Harvested for grain or seed.....bushels.....	15,932	8.6	165,209	13,031	9.3	126,760	1,947,613	14.2	11,793,816	1,420,996	12.7	9,796,185
12 Small grains, total.....bushels.....	NA	NA	NA	NA	NA	NA	6,702,947	12.2	60,178,992	6,910,389	6.8	67,904,787
13 All wheat.....bushels.....	NA	NA	NA	NA	NA	NA	1,328,536	3.4	38,077,394	902,936	2.2	40,418,883
14 Winter wheat.....bushels.....	14,705	6.0	228,804	10,173	4.2	231,970	829,224	2.9	27,759,320	415,286	1.5	27,210,410
15 Spring wheat.....bushels.....	NA	NA	NA	NA	NA	NA	499,312	4.6	10,318,074	487,650	3.6	13,208,473
16 Oats.....bushels.....	19,539	9.4	188,325	25,344	8.4	274,878	364,322	4.6	7,601,246	410,691	3.4	11,719,813
17 Barley.....bushels.....	31,924	18.0	145,289	36,730	12.6	133,643	1,564,089	12.9	10,547,302	1,669,239	16.5	8,433,575
18 Rye.....bushels.....	676	0.3	6,442	188	0.1	8,795	7,354	0.3	63,991	2,671	0.3	733,842
19 Flaxseed.....bushels.....	263	0.8	33,764	334	0.6	60,200	14,003	1.6	889,172	1,920	0.3	733,842
20 Rice.....bushels.....	6,806	100.0	NA	7,838	100.0	NA	1,198,088	10.0	2,359,557	38,234	0.4	4,159,047
21 Other grains.....bushels.....	NA	NA	NA	NA	NA	NA	196,386	21.6	713,080	139,402	6.8	1,899,525
22 Soybeans harvested for all purposes.....	1,298	3.2	39,527	762	1.6	46,546	54,738	3.9	1,357,766	19,109	1.7	1,088,569
23 Harvested for beans.....bushels.....	1,244	4.1	29,379	626	2.2	28,102	33,281	4.4	1,170,078	18,565	2.4	762,188
24 Cowpeas harvested for all purposes.....	428	3.1	13,307	798	3.1	24,801	11,837	6.1	181,946	18,118	7.0	240,114
25 Harvested for dry peas.....bushels.....	215	3.2	6,442	188	0.1	8,795	7,354	0.3	63,991	2,671	0.3	733,842
26 Peanuts harvested for all purposes.....	1,007	6.1	15,623	493	1.8	27,200	37,658	10.4	324,449	10,732	4.6	55,393
27 Harvested for nuts.....pounds.....	992	6.5	14,159	488	2.6	18,597	37,214	10.6	313,298	10,348	3.1	318,863
28 Dry field and seed beans harvested for beans.....100-lb. bags.....	13,996	91.6	1,284	14,358	86.9	2,168	654,971	78.9	175,566	673,371	73.7	239,792
29 Dry field and seed peas harvested for peas.....bushels.....	1,390	38.4	2,230	1,732	44.9	2,125	47,388	14.1	289,031	42,583	17.0	207,385
30 Hays cut, total.....bushels.....	NA	NA	NA	NA	NA	NA	6,796,002	24.1	21,397,288	6,699,325	22.0	23,801,175
31 Alfalfa and mixtures.....bushels.....	94,407	30.8	211,325	134,321	30.3	262,531	4,343,682	36.3	7,632,661	4,675,269	36.3	8,211,083
32 Clover, timothy, and mixtures.....bushels.....	13,344	27.7	34,861	12,765	20.3	50,251	821,282	48.3	3,262,819	635,628	39.8	1,052,868
33 Lespedeza.....bushels.....	30	0.3	9,410	56	0.5	11,164	1,420	0.3	159,690	842	0.5	159,304
34 Vetch or peas.....bushels.....	134	7.4	1,669	202	4.5	4,326	3,034	9.8	28,063	2,297	4.1	53,074
35 Oats, wheat, and other small grains.....bushels.....	10,298	13.2	97,968	11,876	12.1	86,626	226,674	9.4	2,194,929	2,564	10.0	1,974,228
36 Wild hay.....bushels.....	6,976	4.7	133,445	7,557	4.6	137,255	1,209,010	12.5	8,453,798	1,220,588	10.7	10,919,510
37 Other hay.....bushels.....	3,906	4.6	80,104	4,958	5.1	91,567	148,065	7.1	1,923,300	158,703	7.3	2,027,240
38 Grass silage.....bushels, green weight.....	1,193	18.6	5,222	953	13.6	6,071	41,233	21.9	146,628	26,460	16.8	131,308
39 Field seed crops harvested.....	NA	NA	NA	NA	NA	NA	383,775	24.2	1,201,133	386,554	20.3	1,515,773
40 Alfalfa seed.....bushels.....	3,436	17.0	16,747	5,648	15.8	30,134	242,421	38.9	380,309	292,410	30.5	667,532
41 Red clover seed.....bushels.....	2,597	35.4	4,669	1,324	29.2	3,693	41,886	37.2	70,636	21,527	30.2	49,868
42 Sweetclover seed.....bushels.....	141	3.7	3,653	297	2.8	8,894	3,015	4.5	64,052	5,940	3.9	145,184
43 Other field seeds.....bushels.....	NA	NA	NA	NA	NA	NA	96,436	12.3	66,677	9,333	3.9	653,189
44 Cotton harvested.....bales.....	29,991	22.0	106,426	30,974	14.1	189,131	2,923,665	34.1	5,661,889	2,909,240	27.4	7,697,124
45 Irish potatoes harvested.....bushels.....	13,942	14.9	79,435	25,126	10.4	121,924	439,687	77.1	130,610	387,365	73.1	142,245
46 Sweetpotatoes harvested.....bushels.....	902	3.0	28,836	1,704	2.9	37,269	12,341	13.5	879,211	14,131	11.4	110,252
47 Sugar beets harvested.....bushels.....	17,815	97.3	303,871	19,679	96.9	570	699,865	95.2	35,415	660,154	94.9	35,469
48 Hops harvested.....pounds.....	403	94.8	22	360	86.1	38	32,430	97.9	685	23,833	95.0	1,225
49 Peas harvested.....1,000 lb., ear corn.....bushels.....	210	11.5	1,622	290	21.1	1,036	4,437	21.9	15,891	4,096	21.8	14,774
50 All other field crops harvested.....	NA	NA	NA	NA	NA	NA	91,621	14.0	560,809	59,194	9.1	585,494
VEGETABLES HARVESTED FOR SALE												
51 Vegetables harvested for sale, total.....	18,956	50.7	18,454	20,978	38.5	33,557	1,105,992	76.8	334,137	975,609	69.8	422,695
52 Asparagus.....bushels.....	2,473	89.8	140	1,231	82.7	2,788	97,414	96.8	3,167	83,595	97.5	2,167
53 Green snap beans.....bushels.....	2,473	43.9	3,159	3,182	64.7	3,478	29,321	81.0	29,321	8,639	39.8	19,839
54 Cabbage.....bushels.....	2,125	59.4	1,452	2,511	54.6	2,087	32,493	83.6	6,358	29,079	75.9	9,234
55 Cantaloupes and muskmelons.....bushels.....	2,108	42.4	2,865	2,646	43.5	3,206	89,608	91.9	7,905	88,278	89.2	10,680
56 Sweet corn.....bushels.....	5,263	66.6	4,938	6,674	66.8	3,321	76,679	81.9	16,918	76,217	80.7	18,276
57 Lettuce and romaine.....bushels.....	2,066	88.6	2,735	86.8	415	179,299	1,865	100.0	179,299	1,865	100.0	1,865
58 Dry onions.....bushels.....	2,995	73.4	1,087	2,726	66.4	1,380	58,690	81.9	13,002	38,082	59.7	25,720
59 Green peas (English).....bushels.....	1,533	63.2	891	1,846	99.1	1,277	24,307	16.6	122,138	25,770	18.0	117,004
60 Tomatoes.....bushels.....	6,936	51.4	6,547	8,353	45.4	10,055	210,110	96.2	8,361	147,067	85.9	26,060
61 All other vegetables for sale.....bushels.....	NA	NA	NA	NA	NA	NA	307,071	67.6	147,568	282,096	57.9	205,407
FRUITS AND NUTS HARVESTED												
62 Berries and other small fruits harvested for sale, total.....	NA	NA	NA	NA	NA	NA	32,213	49.3	33,173	24,588	40.1	36,794
63 Strawberries.....bushels.....	3,649	37.1	6,241	4,784	38.7	7,308	22,787	59.9	15,256	17,503	47.8	19,126
64 Blackberries and dewberries.....bushels.....	785	21.7	2,839	979	17.2	2,778	1,965	26.5	5,463	1,948	11.9	6,990
65 Boysenberries.....bushels.....	635	41.9	879	823	37.3	1,384	2,630	63.1	1,536	2,167	45.3	2,617
66 Raspberries.....bushels.....	1,636	34.9	3,056	2,246	35.6	4,065	2,531	24.9	7,616	1,934	23.9	6,147
67 Cranberries.....bushels.....	222	100.0	412	100.0	100.0	1,493	100.0	100.0	1,493	100.0	100.0	1,493
68 Blueberries.....bushels.....	136	35.6	246	75	22.2	263	333	24.6	1,022	173	28.8	427
69 Other berries.....bushels.....	NA	NA	NA	NA	NA	NA	474	17.2	2,280	486	24.8	1,477
70 Tree fruits, nuts, and grapes, total.....	59,750	52.4	54,244	67,668	51.0	64,964	1,538,782	75.8	490,412	1,338,777	71.4	535,738

NA Not available. ¹Data for a crop which was only partly irrigated are included with the nonirrigated crops. ²For continuous Western States and Louisiana. ³Nursery and greenhouse products (horticultural specialties) are the only excluded crops. ⁴Cowpeas for fresh market, or for canning, freezing or other processing are excluded. ⁵Sorghum hay and annual legume hays (soybeans, cowpeas, and peanuts) are excluded. The acreages for soybeans, cowpeas, and peanuts include both acreage grown alone and acreage grown with other crops which were separately reported only in Louisiana. ⁶Data for honeydew melons reported separately in Arizona, included with cantaloupes.

SUMMARY

9

PRODUCTION, AND VALUE OF PRODUCTION FOR 18 SPECIFIED STATES:² 1959 AND 1954

comparable. See text, page

Production										Value of production									
1959					1954					1959					1954				
Irrigated		Nonirrigated			Irrigated		Nonirrigated			Irrigated		Nonirrigated (dollars)			Irrigated		Nonirrigated (Dollars)		
Total unite	Per- cent of total for item	Average per acre	Total unite	Average per acre	Total unite	Per- cent of total for item	Average per acre	Total unite	Average per acre	Dollars	Per- cent of total for item	Nonirrigated (dollars)	Dollars	Per- cent of total for item	Nonirrigated (Dollars)	Dollars	Per- cent of total for item		
xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	1	
xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	2	
xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	3	
xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	4	
xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	5	
xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	6	
xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	2,438,855,102	38.9	3,837,406,737	2,178,631,554	34.9	4,068,246,089	7			
xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	157,394,633	22.1	553,642,191	75,301,494	11.2	598,802,067	8			
98,228,621	18.2	72.0	441,071,293	36.7	29,810,600	7.8	54.5	353,978,031	25.8	111,528,254	19.4	464,323,368	46,553,789	8.6	497,803,660	9			
124,396,146	26.2	63.9	350,302,042	29.7	68,992,580	31.1	48.6	152,764,991	15.7	114,794,708	28.1	294,201,076	88,136,130	31.6	150,910,053	11			
xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	380,600,032	18.2	1,714,117,850	381,563,370	16.8	1,886,937,725	12			
52,182,584	6.5	39.3	745,126,092	19.6	28,872,032	4.5	32.0	613,011,316	15.2	88,462,837	6.3	1,326,293,453	95,045,831	4.3	1,328,763,148	13			
28,394,776	4.5	34.2	601,178,019	21.7	9,243,730	1.9	22.3	476,536,376	17.5	49,550,128	4.5	1,055,995,641	19,725,434	1.9	1,028,876,777	14			
23,787,808	14.2	47.6	143,948,073	14.0	19,628,302	12.6	40.3	136,474,940	10.3	38,912,709	12.6	270,297,812	39,320,397	11.6	299,886,371	15			
17,264,207	8.8	47.4	179,204,454	23.6	16,979,143	5.1	41.3	314,511,146	26.8	11,705,264	9.6	109,614,011	13,233,048	5.9	212,937,343	16			
79,952,435	23.9	51.1	255,156,094	24.2	77,364,746	27.5	46.3	203,799,684	24.2	78,416,897	27.3	208,642,758	87,808,052	28.7	218,201,761	17			
333,790	2.6	23.8	12,454,899	14.0	24,761	0.3	12.9	9,731,399	13.3	339,130	2.9	11,335,287	27,378	0.2	12,117,324	18			
1,387,344	9.1	36.9	13,259,696	5.6	1,228,170	4.5	32.1	25,953,144	6.2	4,012,691	9.1	40,245,866	4,118,897	5.0	78,081,294	19			
89,791,855	100.0	74.9	...	...	100,350,168	100.0	57.4	...	...	185,495,347	100.0	...	209,723,372	100.0	...	...	20	
xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	12,441,593	41.3	17,672,788	7,606,592	17.1	36,836,855	21			
xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	2,481,128	5.6	41,604,627	1,038,753	3.7	27,695,218	22			
1,324,568	5.7	24.9	21,887,268	18.7	435,635	4.0	23.5	10,374,840	13.6	2,455,567	5.7	40,417,173	1,047,555	4.0	25,161,385	23			
xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	357,024	10.1	3,167,384	196,264	6.0	3,088,796	24			
91,132	13.0	12.4	612,262	9.6	38,482	10.3	14.4	334,764	6.0	331,208	13.9	2,059,472	166,782	10.3	1,431,626	25			
xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	6,794,035	23.8	21,776,022	1,789,873	9.0	18,134,127	26			
68,288,914	23.6	1,835	221,033,360	706	13,942,918	11.8	1,347	103,805,316	326	6,742,099	24.6	20,657,788	1,676,591	11.8	12,473,659	27			
11,487,993	94.6	17.5	660,811	3.8	11,374,196	90.4	16.9	1,203,870	5.0	88,287,967	94.4	5,245,111	86,366,934	90.5	9,015,875	28			
1,530,259	18.7	32.3	6,647,793	23.0	1,022,825	18.5	24.0	4,505,078	21.7	3,800,663	19.1	16,142,892	3,072,188	18.5	13,563,778	29			
18,508,229	43.1	2.7	24,480,012	1.1	16,948,671	39.1	2.5	26,388,948	1.1	449,267,098	50.6	437,988,100	375,619,778	53.7	483,371,484	30			
15,103,044	56.8	3.5	11,480,990	1.5	14,058,013	22.3	3.2	12,831,159	1.6	379,716,242	63.1	221,968,022	316,099,995	44.9	260,122,880	31			
1,231,371	49.7	1.5	1,247,225	1.4	961,624	40.4	1.4	1,419,352	1.3	27,680,392	21.7	25,890,392	21,952,188	42.7	29,411,500	32			
1,085	0.5	2.6	221,497	1.4	1,109	0.7	1.3	154,204	1.0	25,709	0.6	4,035,807	31,193	0.8	4,038,935	33			
4,667	11.9	2.1	47,244	1.7	4,393	4.5	1.9	92,496	1.7	142,313	12.0	1,042,715	92,253	4.5	1,942,416	34			
402,247	17.8	1.8	1,856,153	0.8	359,532	15.6	1.6	1,939,276	1.0	8,532,680	19.7	34,787,778	7,289,160	15.8	38,896,216	35			
1,203,257	15.6	1.0	6,509,396	0.8	1,147,711	13.5	0.9	7,368,113	0.7	26,233,412	19.9	105,267,720	24,448,203	18.0	111,700,027	36			
229,561	9.6	1.6	2,172,106	1.1	226,289	10.8	1.4	1,859,748	0.9	4,602,070	10.7	38,306,367	4,407,162	12.0	32,822,953	37			
331,297	25.9	8.0	965,401	6.4	190,000	20.8	7.2	724,602	5.5	2,334,344	25.9	6,689,299	1,299,423	20.7	4,974,817	38			
xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	37,332,929	46.0	43,900,433	41,779,604	46.0	48,995,163	39			
1,254,359	71.4	5.2	502,066	1.3	1,573,178	60.0	5.4	1,048,861	1.6	23,554,128	76.9	7,095,209	32,181,043	63.1	31,971,448	40			
218,000	66.2	5.2	111,234	1.6	121,621	64.3	5.6	67,498	1.4	3,921,741	69.7	1,705,772	3,776,503	66.3	1,879,752	41			
14,514	6.2	4.8	219,032	3.4	31,127	7.2	5.2	402,610	2.8	77,771	6.3	1,162,759	198,742	6.9	2,691,780	42			
xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	9,779,285	22.4	33,936,693	5,623,316	18.0	25,594,183	43			
4,589,108	58.9	1.6	3,204,786	0.6	4,060,990	58.4	1.4	2,898,305	0.4	768,659,790	59.9	451,097,864	478,825,973	58.5	558,774,774	44			
162,477,070	86.1	369.5	26,223,702	200.8	129,390,040	82.3	334.0	27,871,389	195.9	212,715,997	88.7	27,026,635	166,144,709	85.6	284,066,931	45			
2,056,912	20.5	186.7	7,991,005	100.9	1,946,623	19.2	177.8	6,806,509	74.4	6,960,158	40.3	9,702,411	7,108,245	29.3	17,110,907	46			
13,796,573	97.0	19.7	422,252	11.9	11,312,301	96.6	17.1	402,544	11.3	157,931,722	97.0	4,856,741	127,758,797	96.8	4,273,444	47			
53,527,981	18.1	1,651	1,053,447	1,538	36,993,634	96.7	1,552	1,281,419	1,021	26,611,749	98.2	490,071	14,907,610	96.5	544,812	48			
8,299	25.3	1.9	24,436	1.5	6,930	30.9	1.7	15,492	1.1	204,950	28.0	528,012	279,893	37.5	466,860	49			
xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	13,693,439	20.7	52,358,995	10,201,086	17.7	47,499,245	50			
xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	370,033,730	91.0	36,509,326	250,314,681	79.5	64,558,985	51			
xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	NA	NA	NA	NA	NA	NA	NA	52		
xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	NA	NA	NA	NA	NA	NA	NA	NA	53	
xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	NA	NA	NA	NA	NA	NA	NA	NA	54	
xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	NA	NA	NA	NA	NA	NA	NA	NA	55	
xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	NA	NA	NA	NA	NA	NA	NA	NA	56	
xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	NA	NA	NA	NA	NA	NA	NA	NA	57	
xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	NA	NA	NA	NA	NA	NA	NA	NA	58	
xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	NA	NA	NA	NA	NA	NA	NA	NA	59	
xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	NA	NA	NA	NA	NA	NA	NA	NA	60	
xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	43,431,217	72.5	16,099,275	32,908,891	63.4	18,989,771	62			
141,303,547	74.6	6,201	48,128,007	3,155	95,635,026	66.0	5,463	49,187,502	2,970	37,822,698	78.0	10,640,576	27,231,634	70.9	11,170,719	63			
8,997,110	41.8	4,375	11,979,410	2,193	3,990,778	23.2	3,788	11,903,855	1,703	1,337,993	41.6	1,457,970	521,579	21.0	1,961,193	64			
10,136,177	71.9	2,884	3,968,529	2,584	9,307,747	63.1	4,324	5,478,940	2,094	1,217,437	71.7	480,925	2,069,916	66.0	1,064,308	65			
6,038,888	28.7	2,386	14,788,590	1,985	4,626,823	29.2	2,392	13,483,770											

IRRIGATION OF AGRICULTURAL LANDS

Summary Table 5.—SPECIFIED CROPS IRRIGATED¹—FARMS REPORTING, ACREAGE, AND

State and item	Corn for all purposes						Corn harvested for grain					
	Farms reporting			Acrea			Farms reporting			Acrea		
	1959	1954	1949	1959	1954	1949	1959	1954	1949	1959	1954	1949
1 18 States:												
2 Total.....	331,676	429,686	560,793	17,226,242	17,689,817	20,116,645	272,588	343,021	507,075	13,394,000	14,272,846	17,830,016
3 Irrigated.....	42,441	37,565	33,939	1,897,738	877,074	634,756	27,309	20,713	22,326	1,363,403	246,494	437,136
4 Nonirrigated....	289,235	392,121	526,854	15,368,504	16,812,743	19,481,889	245,279	322,308	484,749	12,030,597	13,726,352	17,372,880
5 Louisiana:												
6 Irrigated.....	168	543	327	1,067	3,881	645	157	447	205	1,000	3,330	460
7 Nonirrigated....	34,097	57,529	71,846	395,512	602,569	721,237	32,529	54,302	70,056	361,639	554,116	690,349
8 Hawaii:												
9 Irrigated.....	9	NA	NA	192	NA	NA	9	NA	NA	192	NA	NA
10 Nonirrigated....	14	NA	NA	41	NA	NA	14	NA	NA	41	NA	NA
11 17 Western States:												
12 Total.....	297,411	371,614	488,620	16,829,663	17,083,367	19,394,763	239,902	288,272	436,814	13,031,361	13,715,400	17,139,207
13 Irrigated.....	42,273	37,022	33,612	1,856,671	873,193	634,111	27,152	20,266	22,121	1,362,403	243,164	456,676
14 Nonirrigated....	255,138	334,592	455,008	14,972,992	16,210,174	18,760,652	212,750	268,006	414,693	11,668,958	13,172,236	16,682,531
15 Arizona:												
16 Irrigated.....	387	808	825	11,158	14,755	13,213	153	441	543	3,079	6,615	9,361
17 Nonirrigated....	52	153	185	17,907	12,735	17,476	21	98	121	17,032	11,429	15,944
18 California:												
19 Irrigated.....	4,850	3,918	2,415	241,043	132,067	39,644	2,178	1,939	899	151,084	89,689	16,871
20 Nonirrigated....	344	553	1,207	14,608	10,646	20,012	111	260	561	10,717	5,792	11,838
21 Colorado:												
22 Irrigated.....	8,623	8,415	9,800	316,918	185,195	189,402	5,888	4,386	6,975	181,278	77,166	121,904
23 Nonirrigated....	2,269	3,461	6,380	157,437	210,427	423,840	1,354	1,864	4,814	112,944	136,356	350,991
24 Idaho:												
25 Irrigated.....	3,476	3,484	2,651	75,934	42,218	24,035	1,742	1,342	1,602	23,654	13,737	12,302
26 Nonirrigated....	1,128	149	231	1,884	1,792	1,905	19	31	123	165	245	793
27 Kansas:												
28 Irrigated.....	911	254	55	49,986	10,013	1,551	602	129	48	37,391	5,461	1,439
29 Nonirrigated....	42,267	50,303	65,052	1,819,955	2,023,359	2,367,022	38,621	29,428	61,966	1,637,025	1,312,024	2,229,512
30 Montana:												
31 Irrigated.....	839	713	591	23,999	15,839	10,012	95	112	225	2,265	1,727	2,884
32 Nonirrigated....	1,451	2,479	2,335	86,224	140,189	116,991	28	141	192	580	3,555	3,738
33 Nebraska:												
34 Irrigated.....	9,133	4,906	3,667	841,739	300,533	239,231	8,964	4,639	3,493	805,763	275,366	229,760
35 Nonirrigated....	62,276	78,671	84,884	5,852,183	6,431,648	7,161,716	61,156	77,185	83,742	5,649,411	6,106,222	6,977,733
36 Nevada:												
37 Irrigated.....	159	169	170	4,055	2,939	1,938	31	27	54	305	282	300
38 Nonirrigated....	3	4	8	115	104	50	1	3	3	3	85	15
39 New Mexico:												
40 Irrigated.....	2,172	3,576	4,471	23,048	20,327	29,096	1,744	2,931	3,815	12,423	12,263	23,997
41 Nonirrigated....	669	1,034	3,981	11,004	19,917	60,945	517	714	3,430	8,617	12,899	48,941
42 North Dakota:												
43 Irrigated.....	53	36	72	1,545	760	1,596	...	6	9	...	120	191
44 Nonirrigated....	23,227	29,006	29,813	1,308,111	1,224,830	1,170,593	5,423	11,929	14,129	267,887	394,180	509,841
45 Oklahoma:												
46 Irrigated.....	65	39	9	2,157	560	204	43	24	9	1,493	326	204
47 Nonirrigated....	12,351	17,164	56,986	210,268	276,360	1,068,020	11,598	11,617	55,491	194,853	187,179	1,035,785
48 Oregon:												
49 Irrigated.....	1,516	1,157	738	32,220	15,076	6,102	808	611	490	16,081	7,107	3,589
50 Nonirrigated....	1,312	1,517	3,004	19,578	12,510	19,208	675	645	1,427	11,136	5,442	7,523
51 South Dakota:												
52 Irrigated.....	309	263	244	13,415	8,905	7,846	198	132	126	8,388	4,031	2,831
53 Nonirrigated....	40,754	49,766	50,167	4,087,111	4,004,952	4,007,033	30,064	45,121	43,534	2,448,097	3,348,760	3,259,124
54 Texas:												
55 Irrigated.....	2,621	2,746	2,069	57,338	38,866	18,721	1,782	1,567	1,693	36,498	22,342	14,687
56 Nonirrigated....	65,983	98,606	148,167	1,358,012	1,798,222	2,282,795	63,074	88,717	144,537	1,306,546	1,643,550	2,222,716
57 Utah:												
58 Irrigated.....	3,414	3,552	3,434	43,485	34,486	26,116	388	295	666	4,156	2,571	3,992
59 Nonirrigated....	97	323	405	1,051	2,826	3,630	13	29	66	76	245	365
60 Washington:												
61 Irrigated.....	2,634	2,062	1,689	81,434	31,383	12,943	1,904	1,445	1,174	59,453	20,932	7,370
62 Nonirrigated....	578	692	1,364	6,549	5,972	7,009	53	94	270	1,090	1,239	1,411
63 Wyoming:												
64 Irrigated.....	1,111	924	712	37,197	19,271	12,461	632	240	300	19,092	3,432	5,034
65 Nonirrigated....	377	711	839	20,995	33,596	32,407	62	130	287	2,379	3,030	6,261

See footnotes at end of table.

PRODUCTION, 1959, 1954, AND 1949; AND QUANTITY SOLD, 1959; FOR 19 SPECIFIED STATES

Corn harvested for grain—Continued					Sorghums for all purposes							Sorghums harvested for grain or for seed			
Production (bushels)				Bushels sold, 1959	Farms reporting			Acres			Farms reporting				
1959	1954	1949	Average per acre		1959	1954	1949 ⁷	1959	1954	1949 ⁷	1959	1954	1949		
			1959											1954	
539,299,914 98,228,621 441,077,293	383,388,631 29,810,600 353,578,031	466,543,742 20,574,359 445,969,383	40.3 26.9 36.7	26.9 54.5 25.8	297,950,479 71,119,598 226,830,881	231,755 18,537 213,218	259,410 17,426 249,324	259,308 9,984 249,324	16,675,042 2,132,887 14,542,155	16,810,268 1,647,523 15,162,745	9,734,946 642,276 9,092,670	181,141 15,932 165,209	139,771 13,031 126,740	130,123 7,316 122,807	1
54,820 11,041,790	126,123 10,666,987	16,180 13,013,877	34.8 30.5	37.9 19.3	26,501 2,975,589	2 797	12 1,519	4 1,679	61 11,855	320 14,347	4 8,244	1 231	2 268	...	4
2,795 1,796	NA NA	NA NA	14.6 43.8	NA NA	455 528	...	NA NA	NA NA	...	NA NA	NA NA	...	NA NA	NA NA	6 7
528,203,304 98,173,801 430,029,503	372,595,521 29,684,477 342,911,044	453,513,685 20,558,179 432,955,506	40.5 72.1 36.9	27.2 54.7 26.0	294,948,389 71,093,097 223,855,292	230,956 18,535 212,421	257,879 17,414 240,465	257,625 9,980 247,645	16,663,126 2,132,826 14,530,300	16,795,601 1,647,203 15,148,398	9,726,698 642,272 9,084,426	180,909 15,931 164,978	139,501 13,029 126,472	129,783 7,316 122,467	8 9 10
106,448 140,560	220,970 86,895	203,268 185,009	34.6 8.3	33.4 7.6	67,378 2,450	1,245 31	1,695 44	1,189 77	140,404 1,055	132,823 819	67,018 1,286	799 5	1,191 5	881 11	12
10,333,611 700,188	5,127,537 261,182	673,366 477,445	68.4 65.3	57.2 45.1	9,553,609 649,365	2,762 224	2,101 268	1,321 498	220,661 22,254	117,538 17,308	48,457 19,316	2,355 161	1,572 164	1,033 403	13 14
12,969,802 2,112,580	4,160,804 1,583,399	6,186,385 5,430,260	71.5 18.7	53.9 11.6	7,936,106 1,258,066	1,599 4,515	1,100 6,113	874 7,269	89,387 519,821	35,886 759,991	21,606 575,641	1,352 2,534	672 2,816	595 15	16
1,784,299 10,902	841,185 10,916	676,650 37,097	75.4 66.1	61.2 44.6	889,860 4,076	22 1	2 ...	4 ...	569 30	34 ...	26 ...	12 ...	2 ...	3 ...	17 18
2,450,957 67,451,466	224,653 30,998,736	69,855 61,715,432	65.5 41.2	41.1 23.6	1,820,300 35,038,180	1,010 67,549	558 74,949	217 61,551	135,332 4,661,229	70,883 5,352,068	18,731 2,247,855	934 58,727	460 46,419	188 34,447	19 20
123,154 18,910	57,359 58,825	91,580 66,063	54.4 32.6	33.2 16.5	59,414 12,300	4 3	...	11 122	68 105	...	189 2,295	...	...	...	21 22
59,994,850 250,223,710	15,535,984 169,083,590	10,682,142 213,576,966	74.5 44.3	56.4 27.7	43,416,420 141,112,958	1,429 33,862	573 24,642	125 14,679	49,911 1,501,569	13,588 745,400	3,230 295,902	1,256 30,199	377 16,363	57 4,457	24 25
18,634 175	10,662 1,175	12,584 510	61.1 58.3	37.8 13.8	7,254 ...	18 ...	6 ...	7 1	297 ...	121 ...	80 10	...	3 ...	7 1	25 26
472,917 133,650	360,459 197,144	548,183 664,677	38.1 15.5	29.4 12.2	171,546 32,957	1,403 1,212	1,809 1,820	1,157 3,578	98,280 186,300	86,962 331,094	34,874 485,233	907 791	900 1,125	497 2,461	27 28
...	5,450	7,919	...	45.4	...	1	...	...	30	...	...	...	...	NA	29
6,750,774	9,086,147	11,457,758	25.2	23.1	3,499,928	525	724	2,498	9,719	10,001	34,133	925	NA	...	30
90,090 6,143,428	16,720 2,195,987	7,246 19,196,911	60.3 31.5	51.3 11.7	51,060 2,005,918	235 26,619	155 36,339	70 42,852	17,582 1,135,054	6,238 1,565,429	2,855 1,057,621	189 16,885	106 11,850	57 20,789	31 32
1,258,184 531,475	468,136 289,640	175,819 308,530	78.2 47.7	65.9 53.2	822,540 308,867	7 1	...	...	228 1	...	...	6 ...	...	...	33 34
466,402 61,167,507	135,433 101,362,317	93,187 76,056,137	55.6 25.0	33.6 30.3	191,957 24,787,625	18 8,428	16 5,610	9 7,213	852 276,538	521 141,078	106 147,410	8 4,130	NA NA	4 656	35 36
1,797,261 34,478,973	811,428 27,605,913	436,370 43,641,027	49.2 26.4	36.3 16.8	1,365,914 15,046,417	8,452 69,397	9,318 89,903	4,924 107,137	1,371,249 6,214,051	1,181,980 6,223,668	444,638 4,213,550	7,841 51,910	7,724 47,712	3,989 56,721	37 38
270,620 5,867	148,914 10,078	128,322 7,906	65.1 77.2	57.9 41.1	138,537 1,925	43 2	67 10	62 7	393 14	405 98	346 30	15 1	12 ...	4 2	39 40
4,900,100 80,520	1,403,278 60,700	402,276 47,553	82.4 73.9	67.0 49.0	4,064,474 49,755	254 1	11 3	...	7,089 46	122 70	...	245 1	10 3	...	41 42
1,136,472 78,818	155,505 58,400	163,027 86,225	59.5 33.1	45.3 19.3	536,728 44,505	33 91	3 31	10 163	494 2,514	102 1,106	116 4,144	2 8	...	1 1	43 44

IRRIGATION OF AGRICULTURAL LANDS

Summary Table 5.—SPECIFIED CROPS IRRIGATED¹—FARMS REPORTING, ACREAGE, AND

State and item		Sorghums harvested for grain or for seed—Continued										Grains grown together and threshed as a mixture			
		Acres			Production (bushels)				Bushels sold, 1959		Farms reporting		Acres		
		1959	1954	1949	1959	1954	1949	Average per acre			1954	1949	1954	1949	
								1959	1954						
1	18 States:														
2	Total.....	13,741,429	11,177,181	6,229,121	474,698,188	221,757,571	139,951,516	34.5	19.8	365,054,904	20,737	27,518	487,219	850,050	
3	Irrigated.....	1,947,613	1,420,996	545,659	124,396,146	68,992,580	22,848,137	63.9	48.6	110,750,343	9,199	8,135	117,940	115,328	
	Nonirrigated..	11,793,816	9,756,185	5,683,462	350,302,042	152,764,991	117,103,379	29.7	15.7	254,304,561	11,538	19,383	369,279	734,722	
4	Louisiana:														
5	Irrigated.....	20	34	...	180	880	...	9.0	25.9	...	NA	NA	NA	NA	
	Nonirrigated.....	5,239	3,650	2,684	140,489	72,457	45,239	26.8	19.9	47,553	NA	NA	NA	NA	
6	Hawaii*:														
7	Irrigated.....	...	NA	NA	...	NA	NA	...	NA	...	NA	NA	NA	NA	
	Nonirrigated.....	...	NA	NA	...	NA	NA	...	NA	...	NA	NA	NA	NA	
8	17 Western States:														
9	Total.....	13,736,170	11,173,497	6,226,437	474,557,519	221,684,234	139,906,277	34.5	19.8	365,007,351	20,737	27,518	487,219	850,050	
10	Irrigated.....	1,947,593	1,420,962	545,659	124,395,966	68,991,700	22,848,137	63.9	48.6	110,750,343	9,199	8,135	117,940	115,328	
	Nonirrigated.....	11,788,577	9,752,535	5,680,778	350,161,553	152,692,534	117,058,140	29.7	15.7	254,257,008	11,538	19,383	369,279	734,722	
11	Arizona:														
12	Irrigated.....	100,521	104,112	55,631	5,768,071	5,160,341	2,493,345	57.4	49.6	4,972,829	NA	NA	NA	NA	
	Nonirrigated.....	255	81	409	9,268	1,402	7,901	36.3	17.3	...	NA	NA	NA	NA	
13	California:														
14	Irrigated.....	195,402	97,505	42,361	12,626,952	5,250,295	1,696,055	64.6	53.8	11,361,777	NA	77	304	3,429	
	Nonirrigated.....	19,656	13,837	16,675	999,452	658,355	691,888	50.8	47.6	949,837	NA	NA	NA	28,334	
15	Colorado:														
16	Irrigated.....	76,241	22,200	16,378	3,500,614	718,822	624,138	45.9	32.4	2,397,409	267	649	4,425	12,509	
	Nonirrigated.....	307,971	363,610	281,242	5,073,827	3,284,719	4,492,966	16.5	9.0	3,234,953	185	753	10,821	48,143	
17	Idaho:														
18	Irrigated.....	220	34	21	11,735	156	567	53.3	4.6	NA	6,475	4,594	73,320	54,910	
	Nonirrigated.....	...	...	...	...	...	...	...	...	NA	623	441	20,016	16,776
19	Kansas:														
20	Irrigated.....	123,347	50,614	15,815	7,453,224	2,073,466	699,463	60.4	41.0	5,726,269	1	2	30	38	
	Nonirrigated.....	3,711,981	3,495,378	1,345,965	11,747,879	47,751,513	28,533,189	31.2	13.7	72,409,087	1,419	1,479	46,096	65,664	
21	Montana:														
22	Irrigated.....	...	...	...	...	...	...	...	...	...	326	356	7,605	8,204
	Nonirrigated.....	50	187	32	447	773	145	8.9	41.1	...	424	477	17,876	22,353	
23	Nebraska:														
24	Irrigated.....	45,557	9,632	1,385	3,123,065	442,895	43,979	68.6	46.0	2,367,739	16	26	343	461	
	Nonirrigated.....	1,347,526	508,327	105,573	56,812,255	13,667,604	2,485,092	42.2	26.9	38,515,768	1,568	6,437	45,763	201,086	
25	Nevada:														
26	Irrigated.....	131	90	80	7,687	2,700	488	58.7	30.0	NA	8	NA	189	NA	
	Nonirrigated.....	...	...	10	...	...	...	...	...	...	...	NA	...	NA
27	New Mexico:														
28	Irrigated.....	74,442	54,009	16,928	3,821,657	1,994,950	545,988	51.3	37.0	3,229,189	35	150	590	1,187	
	Nonirrigated.....	139,622	219,335	388,617	3,247,184	2,576,900	8,442,005	23.3	11.7	2,528,763	33	134	1,993	6,168	
29	North Dakota:														
30	Irrigated.....	...	NA	...	...	NA	...	...	NA	...	6	14	119	294
	Nonirrigated.....	456	NA	234	10,000	NA	3,689	21.9	NA	4,380	598	569	23,664	42,794	
31	Oklahoma:														
32	Irrigated.....	13,998	4,639	2,493	702,874	154,153	60,661	50.2	33.2	559,419	2	...	52	...	
	Nonirrigated.....	707,170	609,005	529,788	16,614,616	6,046,607	7,870,671	23.5	9.9	9,302,841	2,623	1,771	76,556	68,352	
33	Oregon:														
34	Irrigated.....	217	...	...	13,350	...	...	61.5	...	NA	579	402	8,607	6,565
	Nonirrigated.....	...	33	...	...	267	...	...	8.1	...	1,904	2,557	43,002	64,963
35	South Dakota:														
36	Irrigated.....	469	NA	97	25,539	NA	650	54.5	NA	21,464	2	8	14	268	
	Nonirrigated.....	139,073	NA	19,343	3,148,466	NA	236,043	22.6	NA	1,218,036	851	1,147	38,636	50,330	
37	Texas:														
38	Irrigated.....	1,309,919	1,077,929	394,461	86,886,123	53,185,972	16,682,388	66.3	49.3	80,154,391	55	30	3,349	1,514	
	Nonirrigated.....	5,414,685	4,542,166	2,992,788	148,495,871	78,697,679	64,293,351	27.4	17.3	126,093,230	627	2,407	26,999	88,293	
39	Utah:														
40	Irrigated.....	158	78	19	8,778	1,992	265	55.6	25.5	NA	1,136	1,426	13,595	17,343	
	Nonirrigated.....	5	...	27	...	...	300	22.0	...	...	106	234	2,549	10,509
41	Washington:														
42	Irrigated.....	6,940	120	...	444,404	5,958	...	64.0	49.7	NA	73	82	914	1,247	
	Nonirrigated.....	46	70	...	571	2,050	...	12.4	29.3	NA	509	521	12,375	14,326	
43	Wyoming:														
44	Irrigated.....	31	...	30	1,893	...	150	61.1	...	397	218	319	4,788	7,359	
	Nonirrigated.....	81	506	75	1,607	4,665	900	19.8	9.2	113	68	172	2,973	6,832	

See footnotes at end of table.

PRODUCTION, 1959, 1954, AND 1949; AND QUANTITY SOLD, 1959; FOR 19 SPECIFIED STATES--Continued

Grains grown together and threshed as a mixture—Continued			Winter wheat harvested														
Production (bushels)			Farms reporting			Acres			Production (bushels)						Bushels sold, 1959		
1954	1949	Average per acre, 1954	1959	1954	1949	1959	1954	1949	1959	1954	1949	Average per acre		1959			1954
												1959	1954				
12,581,433 5,732,019 6,849,414	17,165,789 4,868,697 12,297,092	25.8 48.6 18.5	243,509 14,705 228,804	242,143 10,173 231,970	269,807 10,686 259,121	28,588,544 829,224 27,759,320	27,625,696 415,286 27,210,410	38,491,727 469,680 38,022,047	629,572,795 28,394,776 601,178,019	485,780,106 9,243,730 476,536,376	523,515,363 11,987,502 511,527,861	22.0 34.2 21.7	17.6 22.3 17.5	595,303,478 27,566,147 567,737,331	1	2	
NA NA NA	NA NA NA	NA NA NA	4 509 ...	NA NA NA	NA NA NA	152 32,309 ...	NA NA NA	NA NA NA	4,172 704,896 ...	NA NA NA	NA NA NA	27.4 21.8 ...	NA NA NA	3,865 662,353 ...	4	5	
12,581,433 5,732,019 6,849,414	17,165,789 4,868,697 12,297,092	25.8 48.6 18.5	242,996 14,701 228,295	242,143 10,173 231,970	269,807 10,686 259,121	28,556,083 829,072 27,727,011	27,625,696 415,286 27,210,410	38,491,727 469,680 38,022,047	628,863,727 28,390,604 600,473,123	485,780,106 9,243,730 476,536,376	523,515,363 11,987,502 511,527,861	22.0 34.2 21.7	17.6 28.8 17.5	594,637,260 27,562,282 567,074,978	8	9	
NA NA NA	NA NA NA	NA NA NA	603 21 1,349	247 74 2,386	705 110 962	72,079 854 3,407	7,347 3,906 261,738	21,879 5,315 405,467	3,053,948 12,691 496,292	217,362 42,494 7,138,796	646,017 61,488 4,091,708	42.4 14.9 19.1	29.6 10.9 17.6	3,020,391 11,383 4,748,942	11	12	
133,246 103,620	428,876 851,629	30.1 9.6	2,441 9,018	1,339 7,921	2,460 9,903	55,416 2,157,082	25,949 1,504,938	61,783 2,248,128	1,911,210 46,830,408	566,058 14,799,140	1,579,704 33,527,157	34.5 21.7	21.8 9.8	1,816,586 43,737,332	15	16	
3,997,557 480,505	2,649,311 364,108	54.5 24.0	726 4,625	639 4,851	736 6,135	17,442 656,741	15,314 631,168	14,043 947,822	653,716 19,407,968	438,245 16,763,898	408,102 20,143,001	37.5 29.6	28.6 26.6	607,505 18,559,620	17	18	
100 766,086	650 826,548	3.3 16.6	450 82,555	263 83,940	...	78,322 9,797,900	21,012 9,462,468	...	1,824,962 197,779,801	341,212 162,766,930	...	31.3 20.2	16.2 17.2	1,765,498 186,284,704	19	20	
275,157 355,055	268,958 330,499	36.2 19.9	713 8,464	972 7,991	676 6,478	30,771 1,610,444	41,113 1,516,596	32,639 1,226,830	1,096,988 39,368,664	1,175,113 35,860,824	761,499 20,103,528	35.7 24.5	28.6 23.6	1,043,936 37,300,110	21	22	
6,105 849,380	14,008 3,320,813	17.8 18.6	590 45,601	262 45,724	344 48,868	16,350 2,977,529	7,624 2,964,812	13,704 3,792,110	403,984 64,517,078	162,342 56,479,215	232,566 51,137,256	24.7 21.7	21.3 19.0	386,631 60,789,772	23	24	
4,887 ...	NA NA	25.9 ...	103 2	105 1	193 12	6,005 60	3,300 15	4,115 245	211,237 320	91,765 150	110,943 4,767	35.2 5.3	27.8 10.0	192,764 280	25	26	
15,520 17,126	22,244 69,538	26.3 8.6	677 708	1,235 718	742 2,064	32,413 177,277	12,202 95,304	12,814 461,746	1,197,050 2,349,549	222,056 491,168	236,781 4,464,902	36.9 13.3	18.2 5.2	1,197,056 2,187,110	27	28	
3,450 408,273	11,159 520,296	29.0 17.3	1 251	... 334	... 392	30 22,493	... 19,193	... 24,263	900 323,160	147,679 311,025	... 30.0	... 14.0	... 7.7	850 298,695	29	30	
827 997,732	... 810,009	15.9 13.0	167 35,567	56 39,442	33 39,856	9,832 4,311,421	3,466 4,463,716	2,101 6,263,688	246,731 83,490,616	58,989 65,337,630	23,343 78,659,212	25.1 19.4	17.0 14.6	239,860 78,493,224	31	32	
406,425 1,264,814	274,025 1,719,819	47.2 29.4	577 5,766	607 6,217	325 7,135	17,729 678,810	16,420 686,207	13,249 736,856	893,890 24,475,932	656,337 19,820,005	392,764 15,809,700	50.4 36.1	40.0 28.9	873,588 23,627,140	33	34	
890 812,773	6,215 812,546	63.6 21.0	26 3,477	4 2,609	17 2,395	980 411,828	40 319,671	734 243,768	20,298 6,293,271	424 4,453,082	13,645 3,129,620	20.7 15.3	10.6 13.9	18,732 5,887,396	35	36	
72,281 287,557	49,733 1,387,872	21.6 10.7	4,162 21,388	2,152 19,475	1,391 32,836	393,305 2,637,826	181,880 2,846,638	135,241 5,490,018	11,740,999 38,375,391	2,855,929 26,206,885	2,430,922 72,846,310	29.9 14.5	15.7 9.2	11,462,115 36,180,025	37	38	
601,499 59,365	734,032 162,345	44.2 23.3	1,138 1,215	1,181 1,795	1,721 2,312	16,385 156,086	14,900 247,963	30,023 301,314	623,588 3,304,642	396,240 3,304,642	822,881 4,916,702	38.1 15.8	26.6 13.3	555,484 2,294,704	39	40	
37,555 398,633	51,039 394,366	41.1 32.2	849 6,747	294 7,161	129 7,683	22,419 1,656,974	9,117 1,857,515	2,523 2,122,499	1,261,562 65,101,559	332,055 60,754,660	74,476 48,612,603	56.3 39.3	36.4 32.7	1,247,631 62,266,291	41	42	
176,520 48,495	239,885 119,533	36.9 16.3	129 1,355	102 1,331	252 1,753	3,480 212,348	1,999 191,233	7,127 256,578	75,793 4,677,874	32,542 2,169,178	162,151 5,024,241	21.8 22.0	16.3 11.3	68,137 4,408,230	43	44	

IRRIGATION OF AGRICULTURAL LANDS

Summary Table 5.—SPECIFIED CROPS IRRIGATED¹—FARMS REPORTING, ACREAGE, AND

	State and item	Spring wheat harvested								Oats harvested			
		Acres			Production (bushels)				Bushels sold, 1959	Farms reporting			
		1959	1954	1949	1959	1954	1949	Average per acre		1959	1954	1949	
								1959					1954
1	18 States:												
2	Total.....	10,817,386	13,696,123	19,034,223	167,735,881	156,103,242	202,816,550	15.5	11.4	151,284,752	207,864	300,222	290,649
3	Irrigated.....	499,312	487,650	590,080	23,787,808	19,628,302	19,174,076	47.6	40.3	22,429,417	19,539	25,344	29,419
	Nonirrigated..	10,318,074	13,208,473	18,444,143	143,948,073	136,474,940	183,642,474	14.0	10.3	128,855,335	188,325	274,878	261,230
4	Louisiana:												
5	Irrigated.....	NA	NA	NA	NA	NA	NA	NA	NA	NA	5	37	10
	Nonirrigated....	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,711	4,276	1,878
6	Hawaii:												
7	Irrigated.....	NA	NA	NA	NA	NA	NA	NA	NA	NA	...	NA	NA
	Nonirrigated....	NA	NA	NA	NA	NA	NA	NA	NA	NA	...	NA	NA
8	17 Western States:												
9	Total.....	10,817,386	13,696,123	19,034,223	167,735,881	156,103,242	202,816,550	15.5	11.4	151,284,752	206,148	295,909	288,761
10	Irrigated.....	499,312	487,650	590,080	23,787,808	19,628,302	19,174,076	47.6	40.3	22,429,417	19,534	25,307	29,409
	Nonirrigated..	10,318,074	13,208,473	18,444,143	143,948,073	136,474,940	183,642,474	14.0	10.3	128,855,335	186,614	270,602	259,352
11	Arizona:												
12	Irrigated.....	NA	NA	NA	NA	NA	NA	NA	NA	NA	46	181	168
	Nonirrigated....	NA	NA	NA	NA	NA	NA	NA	NA	NA	13	35	65
13	California:												
14	Irrigated.....	NA	NA	NA	NA	NA	NA	NA	NA	NA	328	558	426
	Nonirrigated....	NA	NA	NA	NA	NA	NA	NA	NA	NA	807	1,751	1,589
15	Colorado:												
16	Irrigated.....	14,590	16,998	46,407	502,486	462,536	1,352,350	34.4	27.2	431,728	4,037	3,682	5,995
	Nonirrigated....	14,276	29,569	127,312	245,955	317,116	2,122,252	17.2	10.7	220,940	1,106	1,515	3,642
17	Idaho:												
18	Irrigated.....	280,370	249,274	234,656	15,310,024	11,691,016	9,229,148	54.6	46.9	14,625,971	4,457	6,528	6,964
	Nonirrigated....	132,040	259,606	273,077	3,040,851	5,651,827	5,092,631	23.0	21.8	2,912,689	2,031	3,531	3,374
19	Kansas:												
20	Irrigated.....	NA	NA	NA	NA	NA	NA	NA	NA	NA	18	41	20
	Nonirrigated....	NA	NA	NA	NA	NA	NA	NA	NA	NA	31,542	47,376	40,196
21	Montana:												
22	Irrigated.....	68,741	78,290	121,227	2,123,485	1,971,668	2,819,708	30.9	25.2	1,955,977	2,779	3,621	3,591
	Nonirrigated....	2,019,358	2,634,359	3,267,093	28,320,397	35,135,386	28,631,703	14.0	13.3	25,913,437	4,978	6,217	4,420
23	Nebraska:												
24	Irrigated.....	NA	NA	1,339	NA	NA	25,274	NA	NA	NA	912	977	678
	Nonirrigated....	NA	NA	95,611	NA	NA	1,204,350	NA	NA	NA	37,454	58,136	59,106
25	Nevada:												
26	Irrigated.....	12,558	6,709	12,757	34,510	194,079	366,227	27.5	28.9	281,028	99	232	266
	Nonirrigated....	1,361	536	309	20,848	4,117	4,707	15.3	7.7	20,409	3	8	17
27	New Mexico:												
28	Irrigated.....	2,071	NA	8,409	45,817	NA	147,742	22.1	NA	35,063	331	472	716
	Nonirrigated....	1,149	NA	10,245	20,995	NA	111,385	18.3	NA	18,301	144	168	643
29	North Dakota:												
30	Irrigated.....	4,913	4,331	8,903	157,820	71,740	209,920	32.1	16.6	155,053	72	76	68
	Nonirrigated....	6,406,424	7,559,139	10,169,581	94,316,942	64,324,189	105,058,699	14.7	8.5	84,399,084	32,528	43,884	40,266
31	Oklahoma:												
32	Irrigated.....	NA	NA	NA	NA	NA	NA	NA	NA	NA	15	42	3
	Nonirrigated....	NA	NA	NA	NA	NA	NA	NA	NA	NA	15,076	26,151	17,364
33	Oregon:												
34	Irrigated.....	29,926	45,566	44,893	1,261,703	1,898,498	1,323,447	42.2	41.7	1,206,899	827	1,470	1,336
	Nonirrigated....	54,979	108,759	238,303	1,266,111	2,625,218	4,334,248	23.0	24.1	1,165,200	4,955	8,269	8,214
35	South Dakota:												
36	Irrigated.....	2,036	1,435	5,358	35,616	15,499	95,156	17.5	10.8	32,998	148	116	197
	Nonirrigated....	1,459,984	2,272,979	3,677,715	10,890,909	20,596,964	27,224,149	7.5	9.1	8,790,504	32,858	50,366	47,869
37	Texas:												
38	Irrigated.....	NA	NA	NA	NA	NA	NA	NA	NA	NA	303	341	166
	Nonirrigated....	NA	NA	NA	NA	NA	NA	NA	NA	NA	17,550	14,613	23,830
39	Utah:												
40	Irrigated.....	37,476	45,420	60,421	1,819,775	1,679,959	2,225,188	48.6	37.0	1,595,302	2,305	3,621	4,882
	Nonirrigated....	16,332	35,171	24,606	389,088	672,942	576,058	23.8	19.1	350,219	155	350	455
41	Washington:												
42	Irrigated.....	38,130	28,891	23,406	1,912,818	1,380,895	802,114	50.2	47.8	1,872,415	870	1,250	1,381
	Nonirrigated....	193,684	274,356	491,948	5,134,360	6,866,880	8,189,038	26.8	25.0	4,938,044	4,419	7,182	6,674
43	Wyoming:												
44	Irrigated.....	8,501	10,736	22,304	273,158	262,412	577,802	32.1	24.4	236,983	1,987	2,099	2,552
	Nonirrigated....	18,487	33,999	68,343	241,617	280,401	893,250	13.1	8.2	206,508	995	1,050	1,628

See footnotes at end of table.

PRODUCTION, 1959, 1954, AND 1949; AND QUANTITY SOLD, 1959; FOR 19 SPECIFIED STATES—Continued

Oats harvested—Continued										Barley harvested						
Acres			Production (bushels)				Average per acre		Bushels sold, 1959	Farm reporting			Acres			
1959	1954	1949	1959	1954	1949	1959	1954	1959		1954	1949	1959	1954	1949		
7,965,568 364,322 7,601,246	12,130,504 410,691 11,719,813	10,058,529 442,933 9,615,596	196,468,661 17,264,207 179,204,454	331,490,289 16,979,143 314,511,146	229,545,720 18,306,033 211,239,687	24.7 47.4 23.6	27.3 41.3 26.8	65,205,382 7,033,574 56,171,802	177,213 31,924 145,287	170,373 36,730 133,643	159,531 43,366 116,165	12,111,391 1,564,089 10,547,302	10,102,814 1,669,239 8,433,575	7,126,268 1,429,850 5,696,418	1 2 3	
183 56,440	2,181 104,508	277 48,422	7,785 1,836,050	61,854 3,464,195	9,181 1,216,490	42.5 32.5	28.4 33.1	1,000 500,336	...	NA NA	NA NA	...	NA NA	NA NA	4 5	
...	NA	NA	...	NA	NA	...	NA	...	...	NA	NA	...	NA	NA	6
...	NA	NA	...	NA	NA	...	NA	...	...	NA	NA	...	NA	NA	7
7,908,945 364,139 7,544,806	12,023,815 408,510 11,615,305	10,009,830 442,656 9,567,174	194,624,826 17,256,422 177,368,404	327,964,240 16,917,289 311,046,951	228,320,049 18,296,852 210,023,197	24.6 47.4 23.5	27.3 41.4 26.8	64,704,046 7,032,574 57,671,472	177,211 31,924 145,287	170,373 36,730 133,643	159,531 43,366 116,165	12,111,326 1,564,089 10,547,237	10,102,814 1,669,239 8,433,575	7,126,268 1,429,850 5,696,418	8 9 10	
2,489 907	5,242 2,013	4,379 3,317	118,623 22,141	206,467 33,444	233,950 89,944	47.7 24.4	39.4 16.6	56,100 11,081	1,010 13	2,025 17	1,541 56	132,619 300	252,058 325	112,995 1,169	11 12	
20,112 109,527	22,514 148,481	15,459 124,141	872,854 3,372,802	859,558 4,711,098	507,339 2,946,864	43.4 30.8	38.2 31.7	696,797 2,850,983	3,974 3,665	4,700 6,546	3,303 7,190	753,780 754,221	786,114 1,074,393	491,330 1,009,096	13 14	
69,339 36,311	57,686 45,583	95,023 102,273	3,003,508 777,542	1,967,323 702,455	3,948,809 2,635,359	43.3 21.4	34.1 15.4	1,002,059 290,411	5,908 4,780	5,603 3,817	10,338 7,200	148,831 359,707	126,838 232,128	269,126 478,975	15 16	
56,439 71,305	71,412 102,667	73,183 85,076	3,134,598 2,634,401	3,836,242 4,347,042	3,425,594 2,823,281	55.5 36.9	53.7 42.3	1,180,468 1,874,020	4,287 4,886	5,821 6,011	6,047 4,580	93,084 406,795	108,184 432,609	96,045 207,555	17 18	
281 666,872	665 1,020,919	323 779,785	6,150 16,074,018	18,657 33,340,653	10,119 15,135,317	21.9 21.1	28.1 32.7	1,170 3,671,428	157 26,519	47 16,580	93 8,005	6,210 867,452	1,187 423,769	2,881 194,287	19 20	
60,584 171,068	74,401 177,882	71,756 100,904	2,887,850 4,197,103	3,072,552 4,156,134	2,968,460 2,247,191	47.7 24.5	41.3 23.4	725,157 1,096,762	2,673 12,825	3,014 12,932	3,267 8,020	78,053 1,664,948	76,011 1,096,407	79,321 395,111	21 22	
16,154 1,242,905	19,195 2,183,729	13,066 2,084,231	635,629 30,360,545	571,513 60,328,960	414,412 41,876,438	39.3 24.4	29.8 27.6	177,817 6,501,104	425 10,512	6,950 9,350	1,965 8,179	8,793 298,819	19,715 191,428	47,583 251,468	23 24	
2,456 144	4,550 180	4,781 386	116,137 3,720	190,086 4,409	174,607 11,793	47.3 25.8	41.8 24.5	26,258 131,501	378 3	557 15	774 22	11,854 21	15,215 572	20,046 1,002	25 26	
6,218 2,793	5,747 3,985	8,838 10,685	252,408 53,399	187,629 63,922	248,657 181,959	40.6 19.1	32.6 16.0	131,501 11,970	814 123	848 133	874 440	24,691 4,195	16,544 3,153	9,875 11,051	27 28	
1,365 1,598,541	1,380 2,089,572	1,051 1,591,410	71,172 39,045,751	48,006 47,750,037	46,015 32,174,229	52.1 24.4	34.8 22.9	20,006 14,800,559	59 38,609	58 41,493	54 31,734	1,197 3,760,968	1,024 3,044,907	850 1,621,959	29 30	
234 497,567	918 811,262	33 458,125	7,130 12,206,321	37,555 20,727,679	1,450 8,160,829	30.5 24.5	40.9 25.5	2,135 3,722,428	19 13,831	16 8,582	2 1,957	292 610,970	444 250,807	97 39,869	31 32	
36,017 111,348	39,876 201,403	30,791 183,742	91,967,095 94,308,683	91,493,040 98,571,266	91,070,519 97,618,168	54.6 40.5	37.4 42.3	1,578,641 2,054,099	1,734 6,826	2,350 7,574	2,463 6,100	69,588 432,317	88,124 406,257	89,758 158,257	33 34	
3,372 2,015,166	2,876 3,893,133	3,475 2,823,961	114,116 39,637,027	70,239 103,988,455	118,641 62,459,906	33.8 17.7	24.4 26.7	22,944 9,963,783	84 9,823	84 10,837	230 22,849	2,353 426,467	2,105 470,843	6,842 1,049,453	35 36	
9,875 851,118	9,487 732,533	4,903 1,042,225	329,912 18,337,971	303,536 14,847,450	134,922 25,512,708	33.4 21.5	32.0 20.3	172,078 7,547,902	1,382 4,812	512 3,565	350 4,228	67,257 199,620	17,050 112,759	9,932 106,232	37 38	
17,267 1,764	25,827 2,868	36,306 3,647	863,122 58,440	1,158,043 99,634	1,658,648 164,334	50.0 33.1	44.8 34.7	169,880 15,872	6,447 1,133	7,332 1,508	8,490 1,308	99,978 44,282	93,928 51,553	104,842 22,744	39 40	
13,076 123,706	18,787 161,277	21,921 119,675	9795,444 95,136,258	91,224,225 96,849,637	91,169,063 94,778,495	60.8 41.5	65.2 42.5	425,533 2,905,453	912 5,788	803 6,354	752 2,563	18,277 655,501	16,434 580,894	12,991 82,583	41 42	
48,811 43,764	47,947 37,818	57,368 53,591	2,080,674 942,282	1,672,618 524,706	2,165,647 1,206,382	42.6 21.5	34.9 13.9	644,030 353,277	1,661 1,139	1,978 1,319	2,823 1,734	47,232 60,654	48,264 60,771	75,336 65,607	43 44	

IRRIGATION OF AGRICULTURAL LANDS

Summary Table 5.—SPECIFIED CROPS IRRIGATED¹—FARMS REPORTING, ACREAGE, AND

State and item		Barley harvested—Continued						Rye harvested									
		Production (bushels)				Bushels sold, 1959		Farms reporting			Acres			Production (bushels)			
		1959	1954	1949	Average per acre												
						1959	1954	1959	1954	1949	1959	1954	1949	1959	1954	1949	
1	18 States:																
2	Total.....	335,108,529	281,164,430	167,781,359	27.7	27.8	243,633,866	22,688	19,727	22,278	903,175	735,862	785,111	12,788,689	9,756,160	7,971,071	
3	Irrigated.....	79,952,435	77,364,746	59,361,968	51.1	46.3	60,087,417	676	129	440	14,003	1,920	7,645	333,790	24,761	103,465	
	Nonirrigated.....	255,156,094	203,799,684	108,419,391	24.2	24.2	183,546,449	22,012	19,598	21,838	889,172	733,942	777,466	12,454,899	9,731,399	7,867,606	
4	Louisiana:																
	Irrigated.....	...	NA	NA	...	NA	...	6	NA	NA	...	NA	NA	...	NA	NA	NA
	Nonirrigated.....	1,800	NA	NA	27.7	NA	1,100	...	NA	NA	58	NA	NA	2,310	NA	NA	NA
5	Hawaii:																
6	Irrigated.....	...	NA	NA	...	NA	...	...	NA	NA	...	NA	NA	...	NA	NA	NA
7	Nonirrigated.....	...	NA	NA	...	NA	...	...	NA	NA	...	NA	NA	...	NA	NA	NA
8	17 Western States:																
9	Total.....	335,106,729	281,164,430	167,781,359	27.7	27.8	243,632,766	22,682	19,727	22,278	903,137	735,862	785,111	12,786,379	9,756,160	7,971,071	
10	Irrigated.....	79,952,435	77,364,746	59,361,968	51.1	46.3	60,087,417	676	129	440	14,003	1,920	7,645	333,790	24,761	103,465	
	Nonirrigated.....	255,154,294	203,799,684	108,419,391	24.2	24.2	183,545,349	22,006	19,598	21,838	889,114	733,942	777,466	12,452,589	9,731,399	7,867,606	
11	Arizona:																
	Irrigated.....	8,440,295	13,244,633	5,896,183	63.6	52.5	6,829,490	3	NA	NA	225	NA	NA	8,650	NA	NA	NA
12	Nonirrigated.....	6,853	9,998	57,509	22.8	30.8	3,312	5	NA	NA	75	NA	NA	416	NA	NA	NA
13	California:																
	Irrigated.....	42,221,481	40,013,659	21,912,529	56.0	50.9	39,053,752	39	NA	NA	847	NA	NA	10,787	NA	NA	NA
14	Nonirrigated.....	25,272,054	33,665,256	29,256,094	33.5	31.3	21,854,194	79	NA	NA	4,080	NA	NA	45,556	NA	NA	NA
15	Colorado:																
	Irrigated.....	6,466,131	4,076,605	10,731,308	43.4	32.1	3,109,683	115	71	88	1,770	1,007	1,103	35,855	14,403	18,195	
16	Nonirrigated.....	8,182,988	2,523,732	10,376,689	22.7	10.9	5,184,444	1,119	790	602	67,384	42,717	21,510	893,150	229,264	176,671	
17	Idaho:																
	Irrigated.....	4,221,443	4,517,876	3,899,017	45.4	41.8	2,085,716	114	NA	NA	2,443	NA	NA	105,451	NA	NA	NA
18	Nonirrigated.....	11,215,426	13,216,978	5,699,152	27.6	30.7	8,549,527	81	NA	NA	4,741	NA	NA	96,961	NA	NA	NA
19	Kansas:																
	Irrigated.....	193,838	23,125	57,512	31.2	19.5	132,459	23	19	4	752	379	67	13,741	4,584	1,247	
20	Nonirrigated.....	22,458,471	9,504,260	3,384,544	25.9	22.4	11,066,355	5,228	4,766	1,834	138,905	81,916	26,659	2,053,227	947,862	257,756	
21	Montana:																
	Irrigated.....	2,890,062	2,413,901	2,486,818	37.0	31.8	929,215	25	NA	11	432	NA	516	5,796	NA	9,944	
22	Nonirrigated.....	44,203,403	25,664,412	7,170,275	26.5	23.4	32,456,423	307	NA	170	19,173	NA	5,467	367,367	NA	42,065	
23	Nebraska:																
	Irrigated.....	290,677	610,413	1,769,961	33.1	31.0	102,332	48	36	48	897	496	704	18,838	5,243	8,364	
24	Nonirrigated.....	6,330,397	3,086,426	3,849,981	21.2	16.1	2,473,601	4,957	4,754	5,991	147,147	138,201	201,462	1,973,776	1,299,963	1,454,687	
25	Nevada:																
	Irrigated.....	515,739	548,860	694,972	43.5	36.1	194,928	6	NA	NA	50	NA	1,536	NA	NA	NA	NA
26	Nonirrigated.....	1,435	7,152	20,963	68.3	12.5	1,090	4	NA	NA	114	NA	876	NA	NA	NA	NA
27	New Mexico:																
	Irrigated.....	948,953	619,188	273,121	38.4	37.4	595,771	53	NA	25	908	NA	743	20,536	NA	11,644	
28	Nonirrigated.....	79,987	42,367	163,863	19.1	13.4	49,124	59	NA	111	1,662	NA	4,143	23,738	NA	45,273	
29	North Dakota:																
	Irrigated.....	41,493	23,985	23,550	34.7	23.4	17,958	1	1	...	12	13	...	170	124	...	
30	Nonirrigated.....	71,247,019	63,265,220	23,912,555	18.9	20.8	53,967,926	3,647	5,756	4,750	192,575	304,516	213,591	2,414,861	4,745,215	2,425,408	
31	Oklahoma:																
	Irrigated.....	7,560	14,590	2,450	25.9	32.9	3,856	4	NA	...	57	NA	...	600	NA	...	
32	Nonirrigated.....	13,429,816	4,713,563	688,336	22.0	18.8	7,458,737	2,367	NA	885	60,150	NA	15,431	662,440	NA	131,525	
33	Oregon:																
	Irrigated.....	3,085,953	3,869,835	3,182,223	44.3	43.9	2,242,790	72	NA	100	2,003	NA	2,881	38,393	NA	31,173	
34	Nonirrigated.....	15,224,423	14,378,887	4,923,269	35.2	35.4	12,424,112	544	NA	483	16,437	NA	11,004	305,571	NA	111,417	
35	South Dakota:																
	Irrigated.....	67,233	52,822	172,281	28.6	25.1	22,780	1	2	1	70	25	100	1,100	407	700	
36	Nonirrigated.....	5,576,472	8,475,712	12,515,227	13.1	18.0	2,700,675	2,363	3,532	6,934	99,716	166,592	263,033	1,236,401	2,509,095	3,071,816	
37	Texas:																
	Irrigated.....	2,082,221	426,565	227,921	31.0	25.0	1,736,932	56	NA	NA	1,832	NA	NA	39,010	NA	NA	NA
38	Nonirrigated.....	3,458,171	1,612,253	1,935,635	17.3	14.3	2,037,541	406	NA	NA	17,170	NA	NA	207,483	NA	NA	NA
39	Utah:																
	Irrigated.....	5,476,631	4,533,138	4,806,238	54.8	48.3	1,608,617	35	NA	77	245	NA	686	3,513	NA	10,725	
40	Nonirrigated.....	1,306,104	1,230,897	889,929	23.9	23.9	600,583	38	NA	132	1,035	NA	3,240	8,364	NA	32,720	
41	Washington:																
	Irrigated.....	974,029	724,230	532,337	53.3	44.1	598,186	67	NA	51	1,298	NA	431	27,171	NA	6,694	
42	Nonirrigated.....	25,867,553	21,419,032	2,072,445	39.5	36.9	22,190,753	705	NA	200	113,544	NA	6,597	2,082,709	NA	64,397	
43	Wyoming:																
	Irrigated.....	2,028,696	1,651,321	2,693,547	43.0	34.2	822,952	14	NA	35	162	NA	414	2,643	NA	4,779	
44	Nonirrigated.....	1,293,722	983,539	1,503,225	21.3	16.2	526,952	97	NA	146	5,206	NA	5,329	79,693	NA	53,871	

See footnotes at end of table.

SUMMARY

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PRODUCTION, 1959, 1954, AND 1949; AND QUANTITY SOLD, 1959; FOR 19 SPECIFIED STATES—Continued

Rye harvested—Continued				Flaxseed harvested												Rice harvested			
Production—Con. (bushels)		Bushels sold, 1959	Farms reporting			Acres			Production (bushels)				Average per acre		Bushels sold, 1959	Farms reporting			
Average per acre			1959	1954	1949	1959	1954	1949	1959	1954	1949	Average per acre		1959		1954	1949		
1959	1954											1959	1954						
14.2 23.8 14.0	13.3 12.9 13.3	10,754,133 276,998 10,477,535	34,027 263 33,764	60,534 334 60,200	55,596 1,522 54,074	2,388,420 37,623 2,350,797	4,197,283 38,234 4,159,049	3,038,694 190,529 2,848,165	14,617,240 1,387,544 13,229,696	27,181,314 1,228,170 25,953,144	23,449,564 4,471,342 18,978,222	6.1 36.9 5.6	6.5 32.1 6.2	12,733,131 1,377,818 11,355,313	6,806 6,806 ...	7,838 7,838 ...	7,987 7,984 3		
...	3,605	4,748	5,675	
39.8	NA	80	...	NA	NA	...	NA	NA	...	NA	NA	...	NA	
...	NA	NA	NA	...	NA	NA	...	NA	NA	...	NA	15	NA	NA	
...	NA	
14.2 23.8 14.0	13.3 12.9 13.3	10,754,053 276,998 10,477,455	34,027 263 33,764	60,534 334 60,200	55,596 1,522 54,074	2,388,420 37,623 2,350,797	4,197,283 38,234 4,159,049	3,038,694 190,529 2,848,165	14,617,240 1,387,544 13,229,696	27,181,314 1,228,170 25,953,144	23,449,564 4,471,342 18,978,222	6.1 36.9 5.6	6.5 32.1 6.2	12,733,131 1,377,818 11,355,313	3,201 3,201 ...	3,090 3,090 ...	2,309 2,309 NA		
38.4 5.5	NA NA	8,200 165	20 ...	48 ...	311 ...	1,954 ...	2,660 ...	30,141 ...	77,606 ...	80,573 ...	811,448 ...	39.7 ...	30.3 ...	77,216 ...	...	NA NA	NA NA	
12.7 11.2	NA NA	7,099 31,962	206 16	265 26	858 58	34,268 3,654	34,610 6,175	147,477 7,813	1,289,962 34,608	1,139,186 95,135	3,525,922 84,693	37.6 9.5	32.9 15.4	1,281,169 32,967	1,365 ...	1,360 ...	942 ...		
20.3 13.3	14.3 5.4	28,046 753,732	...	NA NA	NA NA	...	NA NA	NA NA	...	NA NA	NA NA	...	NA NA	...	...	NA NA	NA NA
43.2 20.5	NA NA	92,152 84,075	...	NA NA	NA NA	...	NA NA	NA NA	...	NA NA	NA NA	...	NA NA	...	...	NA NA	NA NA
18.3 14.8	12.1 11.6	8,664 1,626,854	...	NA 1,492	...	...	NA NA	...	...	NA NA	...	...	NA NA	...	...	NA NA	NA NA
13.4 19.2	NA NA	3,185 324,108	30 241	314 NA	1,258 830	17,375 ...	NA NA	11,708 47,427	18,085 105,895	NA NA	124,621 146,571	14.4 6.1	NA NA	17,582 95,684	...	NA NA	NA NA		
21.0 13.4	10.6 9.4	15,629 1,564,864	...	NA NA	NA NA	...	NA NA	NA NA	...	NA NA	NA NA	...	NA NA	...	...	NA NA	NA NA
30.7 7.7	NA NA	1,302 460	...	NA NA	NA NA	...	NA NA	NA NA	...	NA NA	NA NA	...	NA NA	...	...	NA NA	NA NA
22.6 14.3	NA NA	17,749 19,855	...	NA NA	NA NA	...	NA NA	NA NA	...	NA NA	NA NA	...	NA NA	...	...	NA NA	NA NA
14.2 12.5	9.5 15.6	170 2,163,789	3 22,711	10 42,132	17 33,088	95 1,740,515	333 3,094,791	290 1,775,594	1,176 9,453,401	3,180 19,799,366	2,270 12,217,688	12.4 5.4	9.5 6.4	1,136 8,073,658	...	NA NA	NA NA		
10.5 11.0	NA NA	220 434,445	...	NA NA	...	...	NA NA	...	...	NA NA	...	...	NA NA	...	...	NA NA	NA NA
19.2 18.6	NA NA	30,134 247,034	2 2	NA NA	NA NA	13 95	NA NA	NA NA	308 1,407	NA NA	NA NA	23.7 14.8	NA NA	308 1,407	...	NA NA	NA NA		
15.7 12.4	16.3 15.1	900 1,034,695	1 10,154	3 16,297	14 14,670	10 547,973	95 949,808	348 675,884	90 3,211,147	990 5,486,812	2,650 4,331,467	9.0 5.9	10.4 5.8	90 2,744,602	...	NA NA	NA NA		
21.3 12.1	NA NA	35,574 167,870	1 623	8 1,785	8 3,852	25 40,274	536 108,275	565 308,571	317 414,937	4,241 571,831	4,431 1,992,801	12.7 10.3	7.9 5.3	317 399,730	1,836 ...	1,730 ...	1,367 ...		
14.3 8.1	NA NA	1,279 4,864	...	NA NA	NA NA	...	NA NA	NA NA	...	NA NA	NA NA	...	NA NA	...	...	NA NA	NA NA
20.9 18.3	NA NA	24,709 1,952,173	...	NA NA	NA NA	...	NA NA	NA NA	...	NA NA	NA NA	...	NA NA	...	...	NA NA	NA NA
16.3 15.3	NA NA	1,586 66,810	...	NA NA	NA NA	...	NA NA	NA NA	...	NA NA	NA NA	...	NA NA	...	...	NA NA	NA NA

IRRIGATION OF AGRICULTURAL LANDS

Summary Table 5.—SPECIFIED CROPS IRRIGATED¹—FARMS REPORTING, ACREAGE, AND

	State and item	Rice harvested—Continued										Dry field and seed beans harvested for beans					
		Acres			Production (bushels)					Bushels sold, 1959	Farms reporting			Acres			
		1959	1954	1949	1959	1954	1949	Average per acre			1959	1954	1949	1959	1954	1949	
								1959	1954								
1	18 States:																
2	Total.....	1,198,088	1,747,667	1,408,052	89,791,855	100,350,168	69,542,371	74.9	57.4	89,405,101	15,280	16,526	23,895	830,537	913,163	1,107,204	
3	Irrigated.....	1,198,088	1,747,667	1,408,039	89,791,855	100,350,168	69,541,899	74.9	57.4	89,405,101	13,996	14,358	18,452	654,971	673,371	671,408	
	Nonirrigated..	...	...	13	...	...	472	...	...	...	1,284	2,168	5,443	175,566	239,792	435,796
4	Louisiana:																
5	Irrigated.....	466,516	665,607	562,496	30,147,451	36,302,000	23,600,671	64.6	54.5	29,755,886	...	...	...	...	...	...
6	Nonirrigated....	...	...	13	...	...	472	...	...	...	...	4	...	...	8	...
7	Hawaii:																
8	Irrigated.....	75	NA	NA	6,387	NA	NA	85.2	NA	5,869	...	NA	NA	...	NA	NA	
9	Nonirrigated....	...	NA	NA	...	NA	NA	...	NA	...	...	NA	NA	...	NA	NA
10	17 Western States:																
11	Total.....	731,572	1,082,060	845,543	59,644,404	64,048,168	45,941,228	81.5	59.2	58,649,215	15,280	16,522	23,895	830,537	913,155	1,107,204	
12	Irrigated.....	731,572	1,082,060	845,543	59,644,404	64,048,168	45,941,228	81.5	59.2	58,649,215	13,996	14,358	18,452	654,971	673,371	671,408	
13	Nonirrigated....	...	...	...	...	...	...	...	...	...	1,284	2,164	5,443	175,566	239,784	435,796
14	Arizona:																
15	Irrigated.....	...	NA	NA	...	NA	NA	...	NA	...	43	NA	281	823	4,857	3,701	
16	Nonirrigated....	...	NA	NA	...	NA	NA	...	NA	...	19	NA	100	2,441	5,122	7,471	
17	California:																
18	Irrigated.....	302,132	474,421	303,747	29,403,900	28,121,529	22,021,856	97.3	59.3	29,003,111	2,436	NA	2,239	219,833	240,249	235,197	
19	Nonirrigated....	...	...	...	...	...	...	...	...	...	215	NA	679	27,261	45,444	87,671
20	Colorado:																
21	Irrigated.....	...	NA	NA	...	NA	NA	...	NA	...	2,745	3,580	4,226	76,473	97,124	100,761	
22	Nonirrigated....	...	NA	NA	...	NA	NA	...	NA	...	588	980	1,841	121,746	134,816	181,215	
23	Idaho:																
24	Irrigated.....	...	NA	NA	...	NA	NA	...	NA	...	3,722	5,088	5,210	130,227	139,228	133,296	
25	Nonirrigated....	...	NA	NA	...	NA	NA	...	NA	...	60	218	208	3,383	10,265	10,293	
26	Kansas:																
27	Irrigated.....	...	NA	NA	...	NA	NA	...	NA	...	61	2	3	4,868	135	147	
28	Nonirrigated....	...	NA	NA	...	NA	NA	...	NA	...	19	14	12	1,394	155	929	
29	Montana:																
30	Irrigated.....	...	NA	NA	...	NA	NA	...	NA	...	435	545	586	12,792	14,101	16,290	
31	Nonirrigated....	...	NA	NA	...	NA	NA	...	NA	...	7	29	42	121	545	1,031	
32	Nebraska:																
33	Irrigated.....	...	NA	NA	...	NA	NA	...	NA	...	1,671	1,882	2,176	67,249	67,597	79,692	
34	Nonirrigated....	...	NA	NA	...	NA	NA	...	NA	...	78	151	161	2,916	4,520	4,594	
35	Nevada:																
36	Irrigated.....	...	NA	NA	...	NA	NA	...	NA	...	1	3	1	1	32	1	
37	Nonirrigated....	...	NA	NA	...	NA	NA	...	NA	...	...	...	...	...	...	...
38	New Mexico:																
39	Irrigated.....	...	NA	NA	...	NA	NA	...	NA	...	284	756	1,103	7,373	17,872	14,450	
40	Nonirrigated....	...	NA	NA	...	NA	NA	...	NA	...	163	362	1,992	6,669	25,089	125,916	
41	North Dakota:																
42	Irrigated.....	...	NA	NA	...	NA	NA	...	NA	...	57	49	6	1,944	1,568	159	
43	Nonirrigated....	...	NA	NA	...	NA	NA	...	NA	...	14	21	8	728	355	106	
44	Oklahoma:																
45	Irrigated.....	...	NA	NA	...	NA	NA	...	NA	...	...	...	...	...	...	...
46	Nonirrigated....	...	NA	NA	...	NA	NA	...	NA	...	2	100	8	61	1,551	586	
47	Oregon:																
48	Irrigated.....	...	NA	NA	...	NA	NA	...	NA	...	14	125	122	390	2,404	2,037	
49	Nonirrigated....	...	NA	NA	...	NA	NA	...	NA	...	...	5	28	...	76	186
50	South Dakota:																
51	Irrigated.....	...	NA	NA	...	NA	NA	...	NA	...	42	36	28	4	910	789	
52	Nonirrigated....	...	NA	NA	...	NA	NA	...	NA	...	5	14	4	69	151	84	
53	Texas:																
54	Irrigated.....	429,440	607,639	541,796	30,240,504	35,926,639	23,919,372	70.4	59.1	29,646,104	174	41	7	7,084	906	44	
55	Nonirrigated....	...	...	...	...	...	...	...	...	...	42	119	100	634	994	514
56	Utah:																
57	Irrigated.....	...	NA	NA	...	NA	NA	...	NA	...	13	59	136	66	441	862	
58	Nonirrigated....	...	NA	NA	...	NA	NA	...	NA	...	33	67	111	4,967	8,129	12,257	
59	Washington:																
60	Irrigated.....	...	NA	NA	...	NA	NA	...	NA	...	925	688	279	54,003	33,893	6,139	
61	Nonirrigated....	...	NA	NA	...	NA	NA	...	NA	...	17	21	87	648	811	761	
62	Wyoming:																
63	Irrigated.....	...	NA	NA	...	NA	NA	...	NA	...	1,373	1,504	2,049	70,439	52,054	77,843	
64	Nonirrigated....	...	NA	NA	...	NA	NA	...	NA	...	22	63	62	2,526	1,761	2,182	

See footnotes at end of table.

PRODUCTION, 1959, 1954, AND 1949; AND QUANTITY SOLD, 1959; FOR 19 SPECIFIED STATES—Continued

[illegible]

IRRIGATION OF AGRICULTURAL LANDS

Summary Table 5.—SPECIFIED CROPS IRRIGATED¹—FARMS REPORTING, ACREAGE, AND

State and item	Land from which hay was cut ²			Alfalfa and alfalfa mixtures cut for hay and for dehydrating											Tons sold, 1959	
	Acres			Farms reporting			Acres			Production (tons)						
	1959	1954	1949	1959	1954	1949	1959	1954	1949	1959	1954	1949	Average per acre			
													1959	1954		
18 States:																
Total.....	28,193,290	30,500,500	27,063,152	305,372	376,852	326,391	11,956,343	12,586,712	7,982,079	26,584,034	26,889,172	18,471,514	2.2	2.1	9,069,707	
Irrigated.....	6,796,002	6,699,325	6,167,986	94,047	114,321	110,439	4,343,682	4,375,629	3,433,593	15,103,044	14,058,013	10,510,970	3.5	3.2	7,111,903	
Nonirrigated.....	21,397,288	23,801,175	20,895,166	211,325	262,531	215,952	7,612,661	8,211,083	4,548,486	11,480,990	12,831,159	7,960,544	1.5	1.6	1,957,804	
Louisiana:																
Irrigated.....	2,999	5,084	1,041	4	NA	5	70	NA	17	206	NA	35	2.3	NA	...	
Nonirrigated.....	361,167	364,431	257,646	351	NA	775	11,761	NA	20,721	26,813	NA	38,544	2.9	NA	7,990	
Hawaii: *																
Irrigated.....	...	NA	NA	...	NA	NA	...	NA	NA	...	NA	NA	...	NA	...	
Nonirrigated.....	1,899	NA	NA	...	NA	NA	...	NA	NA	...	NA	NA	...	NA	...	
17 Western States:																
Total.....	27,829,124	30,130,985	26,804,465	305,017	376,852	325,611	11,944,512	12,586,712	7,961,341	26,557,015	26,889,172	18,432,935	2.2	2.1	9,061,717	
Irrigated.....	6,793,003	6,694,241	6,166,945	94,043	114,321	110,434	4,343,612	4,375,629	3,433,576	15,102,838	14,058,013	10,510,935	3.5	3.2	7,111,903	
Nonirrigated.....	21,036,121	23,436,744	20,637,520	210,974	262,531	215,177	7,600,900	8,211,083	4,527,765	11,454,177	12,831,159	7,922,000	1.5	1.6	1,949,814	
Arizona:																
Irrigated.....	185,949	212,198	164,038	1,787	2,309	2,513	167,989	185,226	144,591	784,638	562,675	466,546	4.7	3.0	519,319	
Nonirrigated.....	4,203	5,273	4,825	23	35	91	1,287	1,287	1,864	656	938	3,648	1.7	0.7	164	
California:																
Irrigated.....	1,242,035	1,222,134	1,025,371	12,767	18,001	18,264	957,499	974,408	817,403	5,241,173	4,847,108	3,739,793	5.5	5.0	3,837,104	
Nonirrigated.....	390,565	507,854	646,870	797	1,875	2,000	58,017	82,316	75,441	112,337	236,146	218,723	1.9	2.9	41,293	
Colorado:																
Irrigated.....	974,129	893,660	1,050,271	13,335	15,320	17,249	543,429	537,653	533,068	1,401,165	1,242,216	1,228,500	2.6	2.3	473,099	
Nonirrigated.....	293,348	417,072	317,348	2,464	4,230	3,316	110,769	193,917	95,815	173,463	255,990	176,818	1.6	1.3	38,647	
Idaho:																
Irrigated.....	803,170	766,424	697,915	17,741	20,315	20,250	656,836	626,308	520,211	2,125,633	2,049,237	1,606,970	3.2	3.3	558,943	
Nonirrigated.....	359,299	346,955	333,860	5,142	6,516	6,489	242,504	216,642	170,570	389,469	338,084	274,086	1.6	1.6	76,162	
Kansas:																
Irrigated.....	36,897	55,199	14,898	1,057	1,201	427	34,648	51,093	13,858	122,963	161,079	33,236	3.5	3.2	48,206	
Nonirrigated.....	1,820,605	2,445,441	1,960,344	43,996	56,766	56,354	985,589	1,355,779	996,320	2,182,304	2,135,623	1,976,624	2.2	1.6	347,257	
Montana:																
Irrigated.....	945,636	937,827	751,016	7,194	8,136	6,621	455,545	451,100	276,427	996,287	960,673	504,095	2.2	2.1	177,433	
Nonirrigated.....	1,160,995	1,339,678	1,127,198	7,046	7,793	7,089	486,550	442,200	301,713	652,306	543,944	336,317	1.3	1.2	67,970	
Nebraska:																
Irrigated.....	144,690	168,000	107,456	4,363	4,461	3,337	125,367	147,713	87,031	383,027	435,931	229,286	3.1	3.0	97,228	
Nonirrigated.....	4,544,112	5,255,488	4,991,957	54,950	65,577	59,416	1,612,665	1,831,835	1,139,197	3,447,586	3,355,545	2,192,518	2.1	1.8	715,972	
Nevada:																
Irrigated.....	247,110	298,697	360,026	1,439	1,725	1,820	118,520	113,554	98,964	346,794	321,723	276,569	2.9	2.8	109,691	
Nonirrigated.....	42,950	20,536	9,471	26	37	32	2,078	2,565	1,429	3,082	3,044	4,412	1.5	1.2	1,207	
New Mexico:																
Irrigated.....	159,684	167,788	134,025	4,743	6,694	6,740	134,251	147,850	109,549	497,923	440,727	308,521	3.7	3.0	295,608	
Nonirrigated.....	33,933	44,839	51,518	281	580	779	5,757	8,512	10,406	6,123	13,329	17,781	1.1	1.6	2,124	
North Dakota:																
Irrigated.....	13,632	11,125	6,969	222	221	169	10,862	10,896	3,991	27,966	27,105	10,941	2.6	2.5	10,415	
Nonirrigated.....	3,818,936	3,543,793	3,398,039	27,972	30,898	12,766	1,131,809	1,070,013	281,585	1,050,468	1,672,123	367,922	0.9	1.6	96,957	
Oklahoma:																
Irrigated.....	13,346	15,402	3,450	343	388	73	12,295	14,521	3,365	35,499	35,483	6,884	2.9	2.4	120,018	
Nonirrigated.....	1,148,102	1,416,548	1,151,590	11,369	21,407	17,700	308,188	579,000	375,017	677,283	758,860	758,442	2.2	1.3	205,584	
Oregon:																
Irrigated.....	512,112	501,044	467,104	5,603	6,745	5,779	220,322	210,145	150,849	676,421	647,251	421,670	3.1	3.1	232,724	
Nonirrigated.....	419,610	502,375	480,422	2,691	3,144	3,844	87,076	76,954	63,209	180,019	152,946	122,747	2.1	2.0	39,971	
South Dakota:																
Irrigated.....	39,996	42,228	21,710	495	580	392	35,708	38,517	15,466	81,093	82,288	30,401	2.3	2.1	16,246	
Nonirrigated.....	4,619,392	5,158,960	4,351,671	40,256	43,791	27,881	2,023,845	1,709,148	598,329	1,765,373	2,485,064	277,089	0.9	1.5	128,002	
Texas:																
Irrigated.....	74,668	135,686	70,812	1,604	3,159	1,856	52,200	110,451	59,984	178,060	346,307	197,228	3.4	3.1	101,681	
Nonirrigated.....	1,368,129	1,373,289	1,148,111	4,031	7,928	5,252	112,080	214,798	136,662	195,854	282,171	264,978	1.7	1.3	61,924	
Utah:																
Irrigated.....	441,020	442,213	431,267	11,089	13,652	14,598	341,803	335,968	301,331	961,250	901,272	784,301	2.8	2.7	180,430	
Nonirrigated.....	90,469	109,896	87,867	1,514	1,889	1,932	69,302	74,519	58,875	114,917	102,856	128,128	1.7	1.5	22,668	
Washington:																
Irrigated.....	232,188	189,266	145,277	6,069	6,838	5,979	172,513	142,884	98,127	623,421	462,054	310,881	3.6	3.2	321,178	
Nonirrigated.....	624,222	644,026	633,067	6,581	8,398	8,660	230,659	232,924	186,110	369,835	378,534	270,221	1.6	1.6	88,944	
Wyoming:																
Irrigated.....	726,741	635,350	715,340	4,192	4,576	4,367	303,825	277,342	199,361	619,525	534,884	355,113	2.0	1.9	120,580	
Nonirrigated.....	297,251	304,721	343,767	1,535	1,667	1,576	133,637	118,674	75,223	133,102	110,690	88,818	1.0	0.9	16,748	

See footnotes at end of table.

PRODUCTION, 1959, 1954, AND 1949; AND QUANTITY SOLD, 1959; FOR 19 SPECIFIED STATES—Continued

Clover, timothy, and mixtures of clover and grasses cut for hay											Oats, wheat, barley, rye, or other small grains cut for hay							
Farms reporting			Acres			Production (tons)					Tons sold, 1959	Farms reporting			Acres			
1959	1954	1949	1959	1954	1949	1959	1954	1949	Average per acre			1959	1954	1949 ^a	1959	1954	1949 ^a	
48,205 13,344 34,861	63,016 12,765 50,251	56,168 13,636 42,532	1,699,501 821,282 878,219	1,748,210 695,242 1,052,968	1,439,712 657,447 782,265	2,478,596 1,231,371 1,247,225	2,380,976 961,624 1,419,392	2,010,492 947,499 1,062,993	1.5 1.4 1.5	1.4 1.4 1.3	327,289 181,439 145,850	78,266 10,298 67,968	98,504 11,878 86,626	82,346 12,418 69,928	2,423,603 228,674 2,194,929	2,193,852 219,564 1,974,288	2,012,971 218,924 1,794,047	1 2 3
22 2,108	38 3,144	7 1,194	269 46,075	986 74,745	69 24,163	419 65,799	1,552 101,103	89 30,565	1.6 1.4	1.6 1.4	75 4,158	10 1,349	19 3,907	3 685	493 23,025	558 54,941	154 8,495	4 5
...	NA	NA	...	NA	NA	...	NA	NA	...	NA	...	...	NA	NA	...	NA	NA	6 7
46,075 13,322 32,753	59,834 12,727 47,107	54,967 13,629 41,338	1,653,157 821,013 832,144	1,672,479 694,256 978,223	1,415,480 657,378 758,102	2,412,378 1,230,952 1,181,426	2,278,321 960,072 1,318,249	1,979,838 947,410 1,032,428	1.5 1.5 1.4	1.4 1.4 1.3	323,056 181,364 141,692	76,907 10,288 66,619	94,578 11,859 82,719	81,658 12,415 69,243	2,400,085 228,181 2,171,904	2,138,353 219,006 1,919,347	2,004,322 218,770 1,785,552	8 9 10
...	33	32	...	554	644	...	985	900	...	1.8	...	284	416	561	8,825	13,902	14,999	11 12
...	7	29	...	168	378	...	110	444	...	0.7	...	55	71	116	1,781	2,300	3,260	...
1,778 700	1,687 846	884 616	103,423 32,628	74,188 27,138	39,255 15,234	190,557 51,670	121,753 46,725	64,610 26,700	1.8 1.6	1.6 1.7	43,685 5,728	3,548 4,246	3,865 7,354	3,982 10,864	103,733 228,827	90,434 305,713	85,115 457,801	13 14
1,845 462	1,651 501	1,811 573	184,912 24,587	164,028 31,804	139,985 26,555	273,216 28,913	208,900 28,261	215,690 36,165	1.5 1.2	1.3 0.9	37,116 3,154	1,163 1,306	1,329 1,608	1,179 1,393	19,568 34,274	22,639 57,300	17,011 32,322	15 16
2,222 1,678	1,458 1,878	2,818 2,659	70,009 53,077	46,547 49,341	71,798 65,478	102,061 75,697	70,411 66,296	105,478 83,359	1.5 1.4	1.5 1.3	14,010 15,242	637 938	833 1,738	1,016 2,044	7,709 17,063	9,850 28,345	11,186 33,847	17 18
9 3,949	15 6,686	9 6,782	294 55,686	304 64,366	128 95,900	601 95,285	432 117,987	132 127,350	2.0 1.5	1.4 1.2	56 5,943	16 9,637	18 9,631	3 2,412	423 47,209	320 126,001	65 30,491	19 20
1,716 1,488	1,968 1,740	1,861 1,941	167,369 85,680	151,499 87,288	138,819 88,003	229,149 96,748	195,138 89,198	173,114 87,931	1.4 1.1	1.3 1.0	22,326 10,092	800 4,954	886 5,951	811 5,528	18,544 209,487	16,597 200,865	14,593 204,228	21 22
30 3,005	81 4,160	28 4,053	997 96,722	1,116 167,823	532 85,393	1,453 114,813	1,340 187,193	1,074 90,513	1.5 1.2	1.2 1.1	126 8,138	198 2,903	256 5,113	66 2,811	3,070 71,367	4,849 120,950	1,530 61,500	23 24
245 18	209 6	338 5	35,311 10,197	30,636 680	48,043 607	42,479 5,401	35,753 600	61,760 710	1.2 0.5	1.2 0.9	5,312 84	279 21	311 14	371 29	7,628 883	6,177 317	9,488 1,224	25 26
417 182	365 179	687 406	7,741 2,457	6,312 2,805	8,252 6,122	10,321 2,641	7,196 2,596	11,289 7,649	1.3 1.1	1.1 0.9	1,625 487	485 347	742 742	719 870	8,471 6,390	6,700 7,824	7,184 12,239	27 28
1 1,545	6 3,225	2 1,099	15 50,961	89 90,541	26 22,954	30 45,598	139 121,541	32 25,175	2.0 0.9	1.6 1.3	...	16 1,920	6 12,758	11 6,602	517 512,441	69 146,942	161 311,223	29 30
2 679	4 614	...	31 15,684	95 12,603	...	41 20,411	192 10,740	...	1.3 1.3	2.0 0.9	...	15 6,663	15 12,991	...	412 134,289	428 219,179	...	31 32
2,194 5,220	2,316 6,031	2,052 5,472	73,118 95,322	61,389 88,360	58,051 66,750	132,646 174,251	113,185 164,614	94,066 115,514	1.8 1.8	1.8 1.9	19,706 32,609	922 3,423	1,057 5,079	1,373 8,361	19,962 83,458	17,152 125,923	28,693 154,295	33 34
6 966	7 1,254	15 33,120	625 62,568	372 62,568	832 31,731	835 26,491	289 67,409	1,155 30,157	1.3 0.8	0.8 1.1	195 1,119	61 10,654	36 3,067	31 3,916	1,531 478,652	675 93,718	546 144,995	35 36
46 2,339	81 2,657	22 2,222	1,728 63,539	2,148 64,084	310 47,946	4,491 75,896	3,437 53,371	527 52,380	2.6 1.2	1.6 0.8	2,596 7,985	111 10,103	219 15,896	71 5,389	2,811 243,939	6,747 336,722	2,865 106,513	37 38
1,076 142	1,214 170	1,370 172	38,100 4,269	32,703 4,844	33,321 2,534	60,202 6,283	47,663 7,049	52,486 4,743	1.6 1.5	1.5 0.5	3,773 656	566 209	692 288	759 287	5,689 3,988	5,142 5,735	6,971 5,696	39 40
992 10,174	911 12,689	827 13,012	30,860 186,421	22,607 174,549	29,748 166,094	68,084 349,621	52,425 339,883	58,883 310,029	2.2 1.9	2.3 1.9	20,336 45,747	765 3,575	720 5,515	1,046 9,628	8,901 60,532	6,844 87,186	9,479 130,669	41 42
743 206	761 222	873 288	106,480 13,114	99,469 17,727	87,634 16,805	114,786 11,747	100,834 14,676	106,214 19,242	1.1 0.9	1.0 0.8	10,502 818	422 997	458 1,329	416 1,202	10,387 39,324	10,481 54,327	9,284 38,458	43 44

IRRIGATION OF AGRICULTURAL LANDS

Summary Table 5.—SPECIFIED CROPS IRRIGATED¹—FARMS REPORTING, ACREAGE, AND

State and item	Oats, wheat, barley, rye, or other small grains cut for hay—Continued						Wild hay cut								
	Production (tons)						Farms reporting			Acres			Production (tons)		
	1959	1954	1949	Average per acre		Tons sold, 1959	1959	1954	1949	1959	1954	1949	1959	1954	1949
				1959	1954										
18 States:															
Total.....	2,228,400	2,238,808	2,069,704	0.9	1.0	271,912	140,021	164,792	189,102	9,663,410	11,412,498	12,800,279	7,712,653	8,515,822	10,024,299
Irrigated.....	422,247	399,532	330,236	1.8	1.6	96,977	6,576	7,527	9,493	1,209,612	1,220,588	1,653,751	1,203,257	1,147,711	1,631,586
Nonirrigated.....	1,806,153	1,939,276	1,739,468	0.8	1.0	174,935	133,445	157,265	179,609	8,453,798	10,191,910	11,146,528	6,509,396	7,368,111	8,392,713
Louisiana:															
Irrigated.....	730	463	304	1.5	0.8	...	...	NA	NA	...	...	...	...	NA	NA
Nonirrigated.....	29,217	55,703	8,790	1.3	1.0	777	...	NA	NA	...	NA	NA	...	NA	NA
Hawaii: ²															
Irrigated.....	...	NA	NA	...	NA	...	...	NA	NA	...	NA	NA	...	NA	NA
Nonirrigated.....	...	NA	NA	...	NA	...	...	NA	NA	...	NA	NA	...	NA	NA
17 Western States:															
Total.....	2,228,453	2,242,642	2,060,610	0.9	1.0	271,135	140,021	164,792	189,102	9,663,410	11,412,498	12,800,279	7,712,653	8,515,822	10,024,299
Irrigated.....	401,517	359,069	329,932	1.8	1.6	96,977	6,576	7,527	9,493	1,209,612	1,220,588	1,653,751	1,203,257	1,147,711	1,631,586
Nonirrigated.....	1,826,936	1,883,573	1,730,678	0.8	1.0	174,158	133,445	157,265	179,609	8,453,798	10,191,910	11,146,528	6,509,396	7,368,111	8,392,713
Arizona:															
Irrigated.....	15,694	27,072	24,531	1.8	1.9	5,108	44	29	43	1,147	768	1,012	1,612	991	1,307
Nonirrigated.....	1,507	1,837	3,719	0.8	0.8	118	21	23	42	754	1,059	1,457	675	633	1,471
California:															
Irrigated.....	209,164	174,035	139,754	2.0	1.9	67,630	370	370	437	42,026	53,850	58,605	51,282	64,234	66,767
Nonirrigated.....	319,989	437,370	556,861	1.4	1.4	103,339	710	976	1,203	55,820	48,314	59,460	37,968	51,776	65,183
Colorado:															
Irrigated.....	30,103	29,475	23,781	1.5	1.3	2,789	960	870	1,561	208,547	158,329	338,213	201,106	139,152	349,956
Nonirrigated.....	29,992	33,970	29,780	0.9	0.6	1,606	1,077	926	2,140	79,028	85,510	119,894	71,681	139,152	118,083
Idaho:															
Irrigated.....	12,786	15,126	17,452	1.7	1.5	850	697	891	1,013	60,527	78,777	83,383	73,492	89,906	95,640
Nonirrigated.....	20,768	38,182	39,490	1.2	1.3	2,649	658	834	1,183	37,055	41,870	59,216	41,599	41,791	60,142
Kansas:															
Irrigated.....	531	382	67	1.3	1.2	17	7	7	5	594	637	2,191	639	1,230	667
Nonirrigated.....	55,678	139,290	34,344	1.2	1.1	1,969	23,277	27,663	28,633	594,300	700,184	630,936	749,636	994,231	722,526
Montana:															
Irrigated.....	26,461	21,667	18,496	1.4	1.3	1,457	1,191	1,370	1,488	281,623	289,258	287,618	274,999	268,516	255,831
Nonirrigated.....	176,399	175,579	119,956	0.8	0.9	5,010	3,846	5,548	5,876	255,976	416,144	425,663	192,502	302,867	284,299
Nebraska:															
Irrigated.....	4,200	5,125	1,306	1.4	1.1	351	151	127	165	12,876	10,362	16,985	12,723	9,077	16,398
Nonirrigated.....	66,556	95,832	53,127	0.9	0.8	2,439	20,560	25,805	30,090	2,670,426	2,961,845	3,122,943	1,934,860	1,996,819	2,300,436
Nevada:															
Irrigated.....	11,688	8,934	12,985	1.5	1.4	4,032	313	467	598	81,738	146,284	196,136	76,513	123,724	192,933
Nonirrigated.....	841	317	1,066	1.0	1.0	206	63	60	45	28,755	16,658	4,529	19,941	11,861	4,415
New Mexico:															
Irrigated.....	10,816	9,315	9,001	1.3	1.4	3,031	134	218	210	5,888	3,385	6,202	5,902	3,264	6,469
Nonirrigated.....	5,745	6,080	13,516	0.9	0.8	864	142	179	334	9,716	12,730	14,472	7,802	6,518	10,787
North Dakota:															
Irrigated.....	548	66	197	1.1	1.0	75	7	1	7	1,435	25	2,597	2,185	72	3,716
Nonirrigated.....	317,663	130,707	235,332	0.6	0.9	9,188	29,852	35,370	40,754	1,923,308	1,971,119	2,457,909	1,370,209	1,687,956	1,973,616
Oklahoma:															
Irrigated.....	502	562	...	1.2	1.3	7	5	...	1	97	...	10	139	...	10
Nonirrigated.....	136,348	198,600	55,167	1.0	0.9	7,099	9,810	10,796	13,161	365,938	383,411	405,124	470,515	299,402	472,700
Oregon:															
Irrigated.....	31,926	26,068	40,393	1.6	1.5	5,874	672	899	865	171,101	185,875	199,147	183,101	204,145	209,151
Nonirrigated.....	108,828	197,215	186,958	1.3	1.2	11,066	1,853	2,192	3,214	66,834	91,077	90,609	74,834	96,355	97,731
South Dakota:															
Irrigated.....	1,764	550	621	1.2	0.8	191	22	40	53	1,612	1,614	4,242	1,076	1,491	3,627
Nonirrigated.....	251,423	73,627	90,510	0.5	0.8	6,278	25,257	34,282	36,645	1,997,235	3,140,028	3,361,941	1,040,314	1,967,118	1,900,756
Texas:															
Irrigated.....	3,970	8,312	4,473	1.4	1.2	552	50	30	17	1,977	1,068	440	1,881	1,266	419
Nonirrigated.....	217,382	239,783	95,591	0.9	0.7	15,435	13,249	8,519	9,770	304,071	181,768	177,666	376,022	147,636	179,448
Utah:															
Irrigated.....	9,686	7,940	10,390	1.7	1.5	519	965	1,270	1,559	52,161	62,225	79,209	62,985	67,091	96,058
Nonirrigated.....	3,707	5,028	5,977	0.9	0.9	399	331	475	545	11,346	21,894	20,532	13,711	20,620	27,061
Washington:															
Irrigated.....	16,797	11,845	15,153	1.4	1.7	3,571	95	126	162	3,687	4,010	4,660	5,287	5,596	7,346
Nonirrigated.....	82,237	118,694	176,238	1.4	1.4	5,096	2,153	3,018	4,497	36,141	44,243	61,617	46,799	57,009	74,569
Wyoming:															
Irrigated.....	14,881	12,605	11,332	1.4	1.2	923	893	855	1,309	282,533	222,567	374,653	247,744	167,337	325,291
Nonirrigated.....	31,873	33,442	33,026	0.8	0.6	1,397	586	699	1,477	57,093	74,056	132,938	40,528	41,342	99,490

See footnotes at end of table.

Wild hay cut—Continued			Other hay cut											Alfalfa seed harvested				
Production—Con. (tons)		Tons sold, 1959	Farms reporting			Acres			Production (tons)				Tons sold, 1959	Farms reporting				
Average per acre			1959	1954	1949	1959	1954	1949	1959	1954	1949	Average per acre		1959	1954	1949		
1959	1954											1959					1954	
0.8 1.0 1.0	0.7 0.9 0.9	704,832 91,662 613,170	84,010 3,906 80,104	96,525 4,958 91,567	111,729 5,549 106,180	2,071,365 148,065 1,923,300	2,185,943 158,703 2,027,240	2,506,697 201,081 2,305,616	2,401,667 229,561 2,172,106	2,086,037 226,289 1,859,748	2,585,455 265,246 2,320,209	1.2 1.6 1.1	1.0 1.4 0.9	232,747 37,040 195,707	20,183 3,436 16,747	35,782 5,648 30,134	39,321 6,704 32,617	1 2 2
...	68	105	41	1,777	2,734	216	2,361	2,970	138	1.3	1.1	168	4
...	8,845	8,503	8,542	219,601	176,259	117,204	308,993	195,234	140,876	1.4	1.1	24,886	...	1	...	5
...	NA	NA	NA	...	NA	NA	...	NA	NA	...	NA	NA	NA	6
...	NA	NA	NA	...	NA	NA	...	NA	NA	...	NA	NA	NA	7
0.8 1.0 0.8	0.7 0.9 0.7	704,832 91,662 613,170	75,097 3,838 71,259	87,917 4,853 83,064	103,146 5,508 97,638	1,849,987 146,288 1,703,699	2,006,950 155,969 1,850,981	2,389,277 200,865 2,188,412	2,090,313 227,200 1,863,113	1,887,833 223,319 1,664,514	2,444,441 265,108 2,179,333	1.1 1.6 1.1	0.9 1.4 0.9	207,693 36,872 170,821	20,183 3,436 16,747	35,781 5,648 30,133	39,321 6,704 32,617	8 9 10
1.4 0.9	1.3 0.6	98 40	114 18	256 28	347 142	5,182 1,287	9,202 459	7,792 751	11,039 2,476	19,577 412	4,951 659	2.1 2.9	2.1 0.9	2,408 110	163 ...	204 ...	412 ...	11 12
1.2 1.0	1.2 1.1	4,811 10,093	696 309	826 1,311	752 1,519	28,356 15,888	27,391 43,817	24,993 52,168	48,542 16,522	48,885 74,460	39,348 70,065	1.7 1.0	1.8 1.7	13,082 2,677	644 32	937 64	646 286	13 14
1.0 0.9	0.9 0.5	24,899 7,262	404 1,203	401 1,358	658 1,635	16,154 48,675	10,501 47,858	21,994 35,689	23,032 35,039	12,299 40,447	29,392 44,685	1.4 0.8	1.2 0.6	2,796 3,011	379 207	737 197	1,084 526	15 16
1.2 1.1	1.1 1.0	4,016 4,090	229 249	252 418	463 661	6,958 7,248	4,467 10,387	11,337 10,920	11,361 10,123	7,332 12,807	17,871 15,672	1.6 1.4	1.6 1.2	1,738 2,132	552 297	603 307	802 546	17 18
1.3 1.9	0.8 0.8	114,922	43 5,630	47 8,886	14 6,247	684 74,996	765 122,736	208 85,967	1,372 104,892	1,230 123,777	167 107,676	2.0 2.4	1.6 1.0	97 6,602	34 5,306	128 7,007	141 7,613	19 20
1.0 0.8	0.9 0.7	14,986 12,644	349 2,311	492 3,807	690 2,699	18,518 120,879	28,669 192,974	33,559 117,032	21,460 73,265	29,694 125,443	35,116 80,791	1.2 0.6	1.0 0.7	2,493 5,727	173 561	459 1,089	688 1,539	21 22
1.0 0.7	0.9 0.7	1,050 131,877	76 3,148	139 6,627	80 8,358	1,307 70,814	3,334 148,306	1,378 73,906	1,809 73,906	4,144 127,953	1,697 191,890	1.4 2.0	1.2 0.9	39 4,717	35 4,731	49 5,208	156 23	23 24
0.9 0.7	0.8 0.7	6,471 1,238	46 4	48 5	104 20	3,628 1,037	1,971 316	7,395 2,187	4,653 975	2,365 414								

IRRIGATION OF AGRICULTURAL LANDS

Summary Table 5.—SPECIFIED CROPS IRRIGATED¹—FARMS REPORTING, ACREAGE, AND

State and item		Alfalfa seed harvested—Continued										Cotton harvested					
		Acrea			Production (bushels)				Farms reporting			Acres					
		1959	1954	1949	1959	1954	1949	Average per acre		1959	1954	1949	1959	1954	1949		
								1959	1954								
1	18 States:																
2	Total.....	622,730	959,942	893,897	1,756,425	2,622,039	1,727,780	2.8	2.7	136,417	220,105	268,905	8,585,554	10,606,364	14,238,215		
3	Irrigated.....	242,421	292,410	229,215	1,254,359	1,573,178	710,649	5.2	5.4	29,991	30,974	22,954	2,923,665	2,909,240	2,442,469		
	Nonirrigated..	380,309	667,532	664,682	502,066	1,048,861	1,017,131	1.3	1.6	106,426	189,131	245,951	5,661,889	7,697,124	11,795,746		
4	Louisiana:																
	Irrigated.....	...	...	...	...	...	...	...	...	46	248	37	1,445	6,368	357	
	Nonirrigated.....	...	50	...	...	33	...	...	0.7	24,328	51,100	64,060	479,969	665,644	915,773	
6	Hawaii: ^a																
7	Irrigated.....	...	NA	NA	...	NA	NA	...	NA	...	NA	NA	...	NA	NA	NA	
	Nonirrigated.....	...	NA	NA	...	NA	NA	...	NA	...	NA	NA	...	NA	NA	NA	
8	17 Western States:																
9	Total.....	622,730	959,892	893,897	1,746,569	2,622,006	1,727,780	2.8	2.7	112,043	168,757	204,808	8,104,140	9,934,352	13,322,085		
10	Irrigated.....	242,421	292,410	229,215	1,254,359	1,573,178	710,649	5.2	5.4	29,945	30,726	22,917	2,922,220	2,902,872	2,442,112		
	Nonirrigated..	380,309	667,482	664,682	492,210	1,048,828	1,017,131	1.3	1.6	82,098	138,031	181,891	5,181,920	7,031,480	10,879,973		
11	Arizona:																
12	Irrigated.....	16,748	27,356	41,789	47,493	99,478	135,741	2.8	3.6	2,535	2,745	1,651	362,138	438,177	372,282		
	Nonirrigated.....	...	...	117	...	...	350	...	...	3	...	10	794	...	462	
13	California:																
14	Irrigated.....	127,308	120,793	49,715	765,786	921,497	188,340	6.0	7.6	8,671	9,828	8,355	820,724	879,723	861,569		
	Nonirrigated.....	2,850	3,739	11,932	11,283	13,746	43,336	4.0	3.7	1	...	...	80	...	...
15	Colorado:																
16	Irrigated.....	7,881	16,727	23,580	19,316	40,628	42,456	2.5	2.4	...	...	...	...	...	...
	Nonirrigated.....	7,466	5,254	10,007	11,824	8,552	14,919	1.6	1.6	...	...	...	...	...	...
17	Idaho:																
18	Irrigated.....	13,938	15,040	11,349	82,859	47,027	31,916	5.9	3.1	...	...	...	...	...	...
	Nonirrigated.....	9,803	10,551	14,558	15,874	13,968	18,984	1.6	1.3	...	...	...	...	...	...
19	Kansas:																
20	Irrigated.....	1,159	4,758	4,706	2,950	13,714	11,940	2.5	2.9	...	...	...	...	...	...
	Nonirrigated.....	82,403	121,752	113,764	100,777	238,596	147,299	1.2	2.0	3	...	5	90	...	80		
21	Montana:																
22	Irrigated.....	7,516	16,666	20,227	12,104	38,153	46,926	1.6	2.3	...	...	...	...	...	...
	Nonirrigated.....	30,487	50,558	62,133	41,975	89,245	105,751	1.4	1.8	...	...	...	...	...	...
23	Nebraska:																
24	Irrigated.....	582	823	3,360	908	2,215	5,264	1.6	2.7	...	...	...	...	...	...
	Nonirrigated.....	90,019	93,672	99,265	94,741	144,436	138,250	1.1	1.5	...	...	...	...	...	...
25	Nevada:																
26	Irrigated.....	1,003	731	716	5,743	2,020	1,543	5.7	2.8	19	13	4	3,327	2,385	385		
	Nonirrigated.....	13	130	170	24	292	149	1.8	2.2	...	...	...	...	...	...
27	New Mexico:																
28	Irrigated.....	4,220	5,477	6,593	17,419	26,991	20,220	4.1	4.9	2,844	3,229	3,066	182,194	189,256	297,496		
	Nonirrigated.....	64	71	990	175	69	1,363	2.7	1.0	132	122	388	6,898	7,794	27,698		
29	North Dakota:																
30	Irrigated.....	75	138	318	98	188	554	1.3	1.4	...	...	...	...	...	...
	Nonirrigated.....	14,046	70,069	68,647	10,853	65,587	75,343	0.8	0.9	...	...	...	...	...	...
31	Oklahoma:																
32	Irrigated.....	1,297	4,123	1,177	3,251	14,750	2,417	2.5	3.6	668	397	127	37,442	22,097	8,441		
	Nonirrigated.....	45,216	79,291	108,262	90,149	141,568	218,674	2.0	1.8	16,251	26,449	38,025	564,356	881,197	1,219,470		
33	Oregon:																
34	Irrigated.....	6,434	4,730	2,789	44,283	25,387	7,273	6.9	5.4	...	...	...	...	...	...
	Nonirrigated.....	1,501	1,544	2,286	4,741	4,399	5,540	3.2	2.8	...	...	...	...	...	...
35	South Dakota:																
36	Irrigated.....	978	903	1,781	1,264	1,704	5,135	1.3	1.9	...	...	...	...	...	...
	Nonirrigated.....	73,910	193,391	124,150	71,531	252,633	158,391	1.0	1.3	...	...	...	...	...	...
37	Texas:																
38	Irrigated.....	1,345	4,353	4,688	6,021	14,649	12,555	4.5	3.4	15,208	14,554	9,714	1,516,395	1,371,274	941,939		
	Nonirrigated.....	7,315	12,944	22,898	13,789	24,799	38,284	1.9	1.9	65,708	111,460	143,463	4,609,742	6,142,489	9,632,263		
39	Utah:																
40	Irrigated.....	26,535	38,409	37,766	110,368	151,940	137,445	4.2	4.0	...	...	...	...	...	...
	Nonirrigated.....	10,211	14,651	11,883	23,920	30,979	31,413	2.3	2.1	...	...	...	...	...	...
41	Washington:																
42	Irrigated.....	16,664	20,285	5,625	121,286	147,767	37,064	7.3	7.3	...	...	...	...	...	...
	Nonirrigated.....	920	1,221	1,188	5,106	7,086	3,367	5.6	5.8	...	...	...	...	...	...
43	Wyoming:																
44	Irrigated.....	8,738	11,098	13,036	13,210	25,070	23,860	1.5	2.3	...	...	...	...	...	...
	Nonirrigated.....	4,085	8,016	12,432	5,304	12,873	15,718	1.3	1.6		

See footnotes at end of table.

SUMMARY

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PRODUCTION, 1959, 1954, AND 1949; AND QUANTITY SOLD, 1959; FOR 19 SPECIFIED STATES—Continued

Cotton harvested—Continued						Sugar beets harvested for sugar												Irish potatoes harvested for home use or for sale		
Production (bales)						Farms reporting			Acres			Production (tons)						Farms reporting		
1959	1954	1949	Average per acre		1959	1954	1949	1959	1954	1949	1959	1954	1949	Average per acre		1959	1954	1949		
			1959	1954										1959	1954					
7,793,894 4,589,108 3,204,786	6,959,295 4,060,990 2,898,305	8,747,740 2,853,211 5,894,529	0.9 1.6 0.6	0.7 1.4 0.4	18,318 17,815 503	18,441 17,871 570	18,847 18,182 665	735,280 699,865 35,415	695,623 660,154 35,469	512,548 482,271 30,277	14,218,825 13,796,573 422,252	11,714,845 11,312,301 402,544	8,442,470 8,091,906 350,564	19.3 19.7 11.9	16.8 17.1 11.3	93,377 13,942 79,435	241,050 25,126 215,924	261,055 29,774 231,281		
1,918 477,380	6,887 532,725	272 606,914	1.3 1.0	1.1 0.8	...	...	...	...	...	...	...	...	...	...	...	94 9,216	685 26,514	448 25,681
...	NA	NA	...	NA	...	NA	NA	...	NA	NA	...	NA	NA	...	NA	51	NA	NA		
...		
7,314,596 4,587,190 2,727,406	6,419,683 4,054,103 2,365,580	8,140,554 2,852,939 5,287,615	0.9 1.6 0.5	0.6 1.4 0.3	18,318 17,815 503	18,441 17,871 570	18,847 18,182 665	735,280 699,865 35,415	695,623 660,154 35,469	512,548 482,271 30,277	14,218,825 13,796,573 422,252	11,714,845 11,312,301 402,544	8,442,470 8,091,906 350,564	19.3 19.7 11.9	16.8 17.1 11.3	84,067 13,848 70,219	213,851 24,441 189,410	234,966 29,326 205,600		
696,341 522	842,694	530,279 487	1.9 0.7	1.9 ...	...	...	4	...	...	514	...	...	8,290	...	...	72	76	126
1,791,123 137	1,458,520	1,230,532	2.2 1.7	1.7 ...	2,096 3	1,755	1,423	205,037 463	213,258	127,748	4,774,519 6,931	4,314,422	2,390,861	23.3 15.0	20.2 ...	998 153	1,627 1,022	2,228 1,639		
...	...	...	...	...	4,153 8	3,820 107	4,729 85	142,327 514	111,089 1,896	113,978 7,233	2,431,246 7,233	1,614,394 24,833	1,853,814 28,846	17.1 14.1	14.5 11.9	1,552 160	2,761 574	3,709 721
...	...	...	...	...	3,904 7	3,969	3,889	91,102 154	85,696	57,790 565	1,950,490 2,556	1,547,436	1,071,501 8,886	21.4 16.6	18.1 ...	5,283 978	7,766 3,643	9,256 2,792
...	...	...	...	...	112	85	101	7,756	6,014	4,379	126,982	62,806	44,510	16.4	10.4	28	28	7
13	...	15	0.3	...	...	...	...	1	...	35	...	...	80	...	...	13,882	19,940	31,872
...	...	...	...	...	1,270	1,305	1,495	55,963	53,660	48,880	866,723	695,648	592,315	15.5	13.0	930	2,099	2,201
...	...	...	...	...	8	1,675	...	...	203	7,213	...	2,375	92,306	...	11.7	2,756	6,862	5,288
...	...	...	...	...	1,645	1,697	1,440	63,121	58,502	36,707	1,066,332	778,717	547,934	16.9	13.3	525	885	1,402
...	...	...	...	...	9	28	56	316	1,076	1,325	4,392	8,397	17,307	13.9	7.8	7,662	17,524	21,921
5,972	2,883	499	1.8	1.2	9	...	...	458	...	...	8,344	...	...	18.2	...	117	281	471
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	16	38	50
294,883 4,786	286,290 4,192	249,068 12,215	1.6 0.7	1.5 0.5	10	12	10	611	543	225	8,703	6,000	2,413	14.2	11.0	70	305	349		
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	92	122
...	...	...	...	...	110	106	101	4,346	4,279	3,187	51,346	49,600	34,783	11.8	11.6	27	68	62
...	...	...	...	...	465	415	267	33,787	32,005	18,348	397,741	365,398	186,996	11.8	11.4	6,774	26,467	24,108
45,406 319,427	21,895 254,872	6,668 561,124	1.2 0.6	1.0 0.3	...	...	...	...	...	...	...	...	...	...	...	15	43	21
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	13,720	28,923	38,087
...	...	...	...	...	509	539	575	20,541	18,347	15,499	509,957	395,902	337,990	24.8	21.6	1,165	2,467	2,406
...	...	...	...	...	2	...	8	26	...	214	27.6	...	3,282	...	...	1,267	6,994	7,324
...	...	...	...	...	133	147	122	6,028	5,669	3,627	88,970	70,262	49,065	14.7	12.4	47	73	67
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1,913	14,346	12,272
1,753,465 2,402,521	1,441,821 2,106,516	835,893 4,713,774	1.2 0.5	1.1 0.3	49	20	20	1,769	1,246	1,147	35,356	16,467	16,184	20.0	14.4	345	363	337		
...	...	...	...	...	1,827	2,492	2,773	29,810	31,765	26,621	551,677	524,654	453,115	18.5	16.5	1,426	2,777	4,076
...	...	...	...	...	...	11	33	...	98	292	...	1,528	4,405	...	15.6	142	508	643
...	...	...	...	...	1,031	955	527	32,950	33,296	13,751	741,513	728,395	288,068	22.5	21.9	1,036	2,193	1,797
...	...	...	...	...	6	...	13	82	...	349	...	1,532	7,270	...	...	2,645	9,069	7,116
...	...	...	...	...	977	969	973	38,046	36,889	28,119	584,813	507,598	401,063	15.4	13.8	212	629	811
...	...	...	...	...	2	...	...	39	...	...	500	...	...	12.8	...	87	416	542

IRRIGATION OF AGRICULTURAL LANDS

Summary Table 5.—SPECIFIED CROPS IRRIGATED¹—FARMS REPORTING, ACREAGE, AND

	State and item	Irish potatoes harvested for home use or for sale—Continued						Vegetables harvested for sale ³				Specified vegetables harvested for sale, 1959					
		Acres ⁵			Production (bushels)			Farms reporting		Value (dollars)		Acres, 1959	Asparagus		Green snap beans		
		1959	1954	1949	1959	1954	1949	1959	1954	1959	1954		Farms reporting	Acres	Farms reporting	Acres	
1	18 States:																
2	Total.....	570,297	529,610	595,851	188,700,772	157,261,429	154,621,067	37,410	54,535	406,543,056	314,873,666	1,439,729	1,366	100,581	5,632	36,196	
3	Irrigated.....	439,687	387,365	413,548	162,477,070	129,390,040	124,748,704	18,956	20,978	370,033,730	250,314,681	1,105,592	1,226	97,414	2,473	29,321	
4	Nonirrigated.....	130,610	142,245	182,303	26,223,702	27,871,389	29,872,363	18,454	33,557	36,509,326	64,558,985	334,137	140	3,167	3,159	6,875	
5	Louisiana:																
6	Irrigated.....	23	67	47	3,768	10,056	5,340	317	539	184,730	242,924	1,428	...	...	81	199
7	Nonirrigated.....	3,189	6,905	8,996	322,405	752,561	660,483	3,326	5,919	1,766,987	2,818,568	18,533	...	(2)	1,037	1,438	
8	Hawaii: ⁶																
9	Irrigated.....	60	NA	NA	6,022	NA	NA	1,979	NA	2,477,455	NA	2,573	...	...	197	174
10	Nonirrigated.....	24	NA	NA	2,050	NA	NA	779	NA	716,890	NA	1,222	...	...	105	44
11	17 Western States:																
12	Total.....	567,085	522,638	586,808	188,374,599	156,498,412	153,955,244	33,767	48,077	404,591,339	311,812,174	1,419,768	1,365	100,581	4,514	34,559	
13	Irrigated.....	439,664	387,298	413,501	162,473,302	129,379,984	124,743,364	18,639	20,439	369,849,000	250,071,757	1,104,164	1,226	97,414	2,392	29,122	
14	Nonirrigated.....	127,421	135,340	173,307	25,901,297	27,118,428	29,211,880	15,128	27,638	34,742,339	61,740,417	315,604	139	3,167	2,122	5,437	
15	Arizona:																
16	Irrigated.....	5,757	3,457	3,221	2,247,067	1,326,497	995,813	411	471	37,201,144	30,468,179	78,144	1	20	1	88	
17	Nonirrigated.....	118	28	97	2,421	773	2,275	7	23	95,950	27,020	12	...	...	1	(2)
18	California:																
19	Irrigated.....	85,565	92,780	96,464	38,447,437	37,255,911	38,172,367	5,673	6,012	265,864,676	170,335,726	653,767	285	81,588	589	6,870	
20	Nonirrigated.....	297	850	3,788	54,476	191,967	1,132,243	183	1,149	2,784,346	25,921,856	3,577	3	1,030	22	8	
21	Colorado:																
22	Irrigated.....	50,314	49,685	53,958	17,366,675	16,399,915	17,677,627	1,684	1,842	10,534,662	6,036,926	38,498	35	270	260	2,164	
23	Nonirrigated.....	727	1,496	2,110	121,568	294,750	422,230	59	297	87,019	691,126	417	1	(2)	15	28	
24	Idaho:																
25	Irrigated.....	195,537	146,291	137,584	65,990,480	42,022,173	34,353,847	1,255	1,372	3,148,288	2,796,493	20,430	8	56	53	197	
26	Nonirrigated.....	4,104	3,860	6,393	834,103	870,325	1,179,806	88	263	631,351	800,461	7,798	...	...	7	2
27	Kansas:																
28	Irrigated.....	242	54	28	47,274	7,542	4,462	88	45	316,417	82,536	2,052	7	29	5	5	
29	Nonirrigated.....	917	1,213	4,816	215,431	265,745	761,191	1,069	807	727,537	622,112	5,060	31	80	78	52	
30	Montana:																
31	Irrigated.....	6,547	5,902	8,585	1,776,695	1,569,842	1,877,110	180	196	201,437	159,464	996	2	1	15	7	
32	Nonirrigated.....	877	1,880	3,403	136,855	348,540	517,920	84	152	16,074	103,782	120	...	...	7	(2)
33	Nebraska:																
34	Irrigated.....	10,117	13,779	27,404	3,381,185	3,990,063	7,105,722	81	65	92,514	27,529	554	11	27	8	43	
35	Nonirrigated.....	3,331	5,299	8,107	589,979	618,598	980,427	640	556	335,187	384,845	2,169	30	243	18	24	
36	Nevada:																
37	Irrigated.....	1,778	1,428	1,369	441,960	494,408	320,268	84	86	683,764	362,868	1,235	...	...	6	1
38	Nonirrigated.....	51	7	14	2,218	602	1,189	...	3	...	1,535	...	...	...	...	...
39	New Mexico:																
40	Irrigated.....	1,751	712	917	542,008	131,840	154,169	881	1,224	3,101,552	3,328,875	11,687	5	47	47	111	
41	Nonirrigated.....	266	47	286	3,755	2,310	11,618	32	58	3,398	9,686	101	...	...	4	2
42	North Dakota:																
43	Irrigated.....	272	475	774	40,063	110,611	134,276	20	6	31,020	1,122	129	1	1	1	5	
44	Nonirrigated.....	99,793	94,034	100,935	20,302,060	19,183,435	18,067,450	95	141	40,606	50,988	280	...	...	2	5
45	Oklahoma:																
46	Irrigated.....	24	242	438	4,190	61,092	69,197	62	34	116,105	91,424	1,360	2	1	35	610	
47	Nonirrigated.....	1,023	1,629	4,303	207,597	377,534	565,397	2,052	2,330	2,101,204	1,508,352	27,159	2	1	548	2,443	
48	Oregon:																
49	Irrigated.....	31,561	33,413	31,485	13,279,903	12,742,695	9,937,777	1,603	1,216	13,951,554	6,811,645	44,719	43	1,001	587	10,440	
50	Nonirrigated.....	2,628	3,322	4,744	755,745	689,032	868,301	767	1,710	8,246,603	11,138,229	61,781	15	47	105	645	
51	South Dakota:																
52	Irrigated.....	354	330	161	60,935	76,537	19,375	46	30	56,560	28,584	421	2	1	2	(2)	
53	Nonirrigated.....	5,367	9,022	11,583	627,720	1,272,992	1,085,773	215	279	116,376	107,829	942	1	6	7	1	
54	Texas:																
55	Irrigated.....	13,033	7,036	12,151	3,389,397	1,004,226	1,189,831	3,071	3,688	23,107,848	19,189,795	190,176	14	309	343	6,426	
56	Nonirrigated.....	3,246	5,644	13,387	830,584	1,407,802	870,213	8,702	17,703	8,631,695	11,488,315	135,730	11	28	1,117	1,740	
57	Utah:																
58	Irrigated.....	7,641	8,873	12,942	2,251,520	2,368,530	3,149,092	1,575	2,025	2,588,695	2,363,920	15,709	25	52	158	674	
59	Nonirrigated.....	170	269	713	41,437	61,088	126,291	51	404	54,777	334,960	446	8	19	4	24	
60	Washington:																
61	Irrigated.....	26,505	18,602	20,882	12,273,390	8,522,937	8,384,788	1,862	2,041	8,742,207	7,501,018	43,184	785	14,011	242	1,318	
62	Nonirrigated.....	3,789	6,104	6,856	1,310,378	2,017,581	1,933,345	1,045	1,748	10,828,572	8,547,800	69,526	37	1,713	178	1,363	
63	Wyoming:																
64	Irrigated.....	3,266	4,239	5,738	932,583	1,295,165	1,197,843	63	86	110,557	485,453	1,103	...	...	23	163
65	Nonirrigated.....	657	636	1,226	94,704	92,372	148,622	39	15	41,644	1,521	486	...	...	9	127

NA Not available. Z Reported in small fractions.

¹Data for a crop which was only partly irrigated are included with nonirrigated. ²For 1959 and 1954, acres obtained by adding the individual hay crops, including grass silage. Sorghum and annual legume hays are not included. ³Includes data for the farms where all vegetables were wholly irrigated. ⁴For 1959 and 1954 does not include data for farms with less than 20 acres and grapevines; for 1949 does not include acreage for farms reporting less than 1/2 acre. ⁵For 1959 and 1954 does not include acreage for farms with less than 20 bushels harvested; for 1949, does not include acreage for farms with less than 15 bushels harvested. See text. ⁶Data includes homegrown for Arizona; reported separately on the questionnaire. ⁷Sorghum for all purposes, except sirup. ⁸Does not include oats cut for feeding unthreshed. ⁹Includes production of oats cleaned out of vetch and peas. * Not included in 18 States total.

SUMMARY

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PRODUCTION, 1959, 1954, AND 1949; AND QUANTITY SOLD, 1959; FOR 19 SPECIFIED STATES—Continued

Specified vegetables harvested for sale, 1959—Continued														Land in bearing and nonbearing fruit orchards, groves, vineyards, coffee plantations, and planted nut trees*						
Cabbage		Cantaloups and melons*		Sweet corn		Lettuce and romaine		Dry onions		Green peas		Tomatoes		Farm reporting			Acres			
Farms re- port- ing	Acres	Farms re- port- ing	Acres	Farms re- port- ing	Acres	Farms re- port- ing	Acres	Farms re- port- ing	Acres	Farms re- port- ing	Acres	Farms re- port- ing	Acres	1959	1954	1950	1959	1954	1950	
3,577 2,125 1,452	38,851 32,493 6,358	4,973 2,108 2,865	97,513 89,608 7,905	10,501 5,563 4,938	93,597 76,679 16,918	2,331 2,066 265	181,144 179,299 1,845	4,082 2,995 1,087	71,692 58,690 13,002	2,424 1,533 891	146,445 24,307 122,138	13,483 6,936 6,547	218,471 210,110 8,361	113,994 59,750 54,244	132,632 67,668 64,964	537,868 116,532 421,336	2,029,194 1,538,782 490,412	1,874,515 1,338,777 535,738	2,270,601 1,513,447 757,154	1 2 3
22 625	2 52	2 90	2 91	20 586	52 1,571	1 15	(2) 14	... 28	... 49	3 38	11 45	34 892	32 726	48 4,787	50 3,155	1,688 36,104	105 48,671	329 57,831	86 62,365	4 5
118 65	383 120	... ...	... ...	100 36	144 22	113 50	168 202	74 9	119 17	... ...	... ...	170 69	195 101	1,609 1,044	NA NA	NA NA	817 14,481	NA NA	NA NA	6 7
2,930 2,103 827	36,644 32,441 4,203	4,881 2,103 2,775	97,420 89,606 7,814	9,895 5,543 4,352	91,974 76,627 15,347	2,315 2,065 250	181,130 179,299 1,831	4,054 2,995 1,059	71,643 58,690 12,953	2,383 1,530 853	146,389 24,296 122,093	12,557 6,902 5,655	217,713 210,078 7,635	109,179 59,702 49,477	129,427 67,618 61,809	498,076 114,844 383,232	1,980,418 1,538,677 441,741	1,816,355 1,338,448 477,907	2,208,150 1,513,361 694,789	8 9 10
59 2	1,219 (2)	141 1	19,093 (2)	87 6	391 5	175 1	44,392 (2)	60 2	1,438 1	4 ...	81 ...	62 4	248 1	1,156 149	1,352 128	3,259 930	27,693 1,286	17,372 1,246	21,642 1,578	11 12
650 8	10,969 3	579 21	58,085 355	795 69	18,256 138	1,063 15	118,313 657	649 13	13,716 41	203 13	8,293 424	2,662 62	156,420 558	39,520 10,852	43,012 14,315	56,995 29,569	1,219,722 215,086	1,071,909 251,076	1,156,606 314,051	13 14
200 8	1,833 51	270 4	2,159 355	477 45	2,819 81	210 6	5,839 14	595 10	7,613 89	199 8	3,017 22	603 11	3,913 33	2,005 328	2,756 431	7,832 4,673	17,472 1,047	19,287 999	24,695 2,557	15 16
59 6	266 19	54 7	109 45	834 38	12,044 41	27 ...	168 ...	145 4	1,927 105	193 41	1,912 7,511	93 18	115 9	1,092 353	1,377 415	8,577 5,542	13,981 787	13,359 799	15,120 1,563	17 18
14 63	43 125	47 320	898 660	41 702	148 1,541	3 12	7 16	30 163	393 67	2 18	6 8	67 775	155 422	38 3,319	41 3,318	71 42,930	303 8,200	122 8,073	27 14,562	19 20
53 25	38 7	6 ...	3 ...	149 68	671 56	15 2	66 1	43 18	28 19	38 24	8 4	60 35	17 10	491 347	676 334	2,599 3,682	1,574 809	2,118 769	2,262 1,206	21 22
12 30	23 62	21 127	20 159	71 533	190 617	1 4	2 4	9 5	28 5	1 5	37 26	56 420	88 253	74 2,554	100 3,861	532 31,114	134 3,127	118 4,197	147 6,219	23 24
6 ...	1 ...	24 ...	42 ...	25 ...	47 ...	7 ...	55 ...	41 ...	703 ...	3 ...	1 ...	10 ...	4 ...	224 42	262 20	1,081 231	343 81	465 26	568 86	25 26
51 2	309 10	243 4	519 20	270 10	392 10	117 4	2,512 1	221 8	2,590 1	36 3	13 1	307 7	2,298 1	2,022 330	2,904 493	5,564 3,671	12,457 787	12,211 1,140	13,127 2,123	27 28
6 8	13 9	2 4	3 7	29 69	54 147	2 1	1 1	2 7	5 49	1 1	4 5	10 52	15 31	6 863	2 927	31 6,260	30 1,083	5 1,146	2 1,689	29 30
2 42	2 92	28 631	77 1,383	24 1,898	61 1,958	... 9	... 5	6 47	64 135	1 22	1 226	35 931	39 678	22 5,816	18 7,474	19 56,988	109 35,596	65 36,588	31 60,365	31 32
103 120	320 827	89 41	382 241	834 269	17,702 1,184	50 21	248 69	233 79	3,339 680	63 162	1,725 55,368	267 155	473 93	1,968 8,160	2,428 10,352	5,663 36,762	32,576 66,762	30,650 75,232	29,076 101,430	33 34
9 9	15 22	8 23	14 102	38 151	143 284	1 ...	1 ...	3 6	1 7	4 1	1 (2)	42 127	56 77	22 481	46 1,254	128 12,437	29 689	62 1,599	69 2,890	35 36
616 365	16,420 2,456	271 1,573	7,168 4,636	407 1,166	6,261 4,143	184 74	6,784 337	564 655	24,846 11,720	10 73	252 96	1,732 2,939	41,401 5,377	2,547 12,352	2,377 115,728	5,413 115,728	80,826 92,570	54,927 77,860	128,135 161,431	37 38
76 1	290 2	149 9	388 15	708 27	4,243 227	24 ...	102 ...	188 1	771 (2)	565 18	4,288 98	582 8	3,635 41	1,793 200	3,084 324	6,186 2,154	11,763 869	14,391 966	16,853 2,144	39 40
170 135	668 526	161 4	633 4	719 452	12,943 4,760	176 98	808 725	187 35	1,206 34	18 466	4,150 58,245	286 95	1,168 3,279	6,621 32,919	7,040 5,540	9,419 12,846	119,505 15,978	101,172 15,978	104,546 20,930	41 42
17 3	12 (2)	13 ...	55 ...	262 215	262 215	10 3	1 1	19 6	22 (2)	21 6	507 59	28 16	101 16	143 70	143 71	1,475 904	160 116	215 215	457 165	43 44

Summary Table 6.—NUMBER OF FARMS, IRRIGATED FARMS, LAND IRRIGATED, NUMBER OF IRRIGATION ORGANIZATIONS, AND LAND IRRIGATED BY IRRIGATION ORGANIZATIONS: 1890 TO 1959

[Interstate organizations are counted once in each State, but only once in 18 States total. Acres irrigated is only part within State; acres irrigated direct by two or more organizations are counted twice. See text.]

State and item	1959	1954	1950	1945	1940	1935	1930	1920	1910	1900	1890
18 States, total:											
All farms.....number...	1,044,166	1,291,246	1,430,097	1,564,691	1,681,171	1,931,631	1,820,479	1,683,787	1,561,368	1,211,644	810,118
All land in farms.....acres...	714,860,771	714,646,180	699,178,437	684,020,148	611,005,769	590,378,471	552,640,743	487,984,204	399,046,472	359,339,348	180,704,505
Irrigated farms.....number...	267,431	286,793	288,914	277,814	288,495	288,495	284,051	264,051	162,491	113,629	54,136
Land irrigated in census year.....acres...	31,222,967	27,678,507	24,847,341	19,966,986	17,657,365	12,803,202	14,486,342	(¹)	(¹)	7,744,467	3,715,956
Irrigation organizations.....number...	8,749	NA	10,491	NA	5,583	NA	4,373	NA	NA	NA	NA
Acres reported irrigated by organizations.....acres...	17,700,341	NA	14,974,785	NA	16,377,775	NA	13,130,663	12,339,434	NA	NA	NA
Arizona:											
All farms.....number...	7,233	9,321	10,412	13,142	18,468	18,824	14,173	9,975	9,227	5,809	1,426
All land in farms.....acres...	40,203,386	41,789,946	39,916,440	37,856,370	25,651,092	14,018,540	10,526,627	5,802,126	1,246,613	1,935,327	1,297,033
Irrigated farms.....number...	5,391	6,809	7,822	9,634	10,339	10,050	8,523	6,605	4,841	2,981	1,075
Land irrigated in census year.....acres...	1,152,450	1,177,407	963,560	736,027	575,464	430,056	448,806	(¹)	(¹)	185,396	65,821
Irrigation organizations.....number...	155	NA	163	NA	103	NA	92	NA	NA	NA	NA
Acres reported irrigated by organizations.....acres...	643,846	NA	555,958	NA	580,202	NA	501,754	387,054	NA	NA	NA
California:											
All farms.....number...	99,274	123,075	137,168	138,917	132,658	150,360	135,676	117,670	88,197	72,542	52,894
All land in farms.....acres...	36,887,948	37,794,780	36,613,291	35,054,379	30,524,324	30,437,995	30,442,581	29,365,667	27,931,444	28,828,951	21,427,293
Irrigated farms.....number...	74,138	84,502	90,755	87,205	84,310	91,347	85,784	67,391	39,352	25,675	13,732
Land irrigated in census year.....acres...	7,395,597	7,048,049	6,438,324	4,952,819	4,276,554	3,513,700	3,540,350	(¹)	(¹)	1,446,114	1,004,233
Irrigation organizations.....number...	1,075	NA	1,506	NA	1,246	NA	965	NA	NA	NA	NA
Acres reported irrigated by organizations.....acres...	4,184,482	NA	3,135,281	NA	3,171,568	NA	3,011,175	2,716,170	NA	NA	NA
Colorado:											
All farms.....number...	33,390	40,749	45,578	47,618	51,346	63,644	59,596	59,394	46,170	24,700	16,389
All land in farms.....acres...	38,787,132	38,385,234	37,953,099	36,217,808	31,527,240	29,978,472	28,876,137	24,462,034	13,532,113	9,474,388	4,998,941
Irrigated farms.....number...	20,312	23,355	27,121	28,054	29,766	30,321	31,288	28,756	25,897	17,613	9,659
Land irrigated in census year.....acres...	2,684,757	2,262,921	2,872,348	2,698,579	2,467,548	1,882,888	2,291,927	(¹)	(¹)	1,611,271	890,735
Irrigation organizations.....number...	1,933	NA	2,302	NA	848	NA	583	NA	NA	NA	NA
Acres reported irrigated by organizations.....acres...	2,669,677	NA	2,399,618	NA	2,807,803	NA	2,423,911	2,333,973	NA	NA	NA
Idaho:											
All farms.....number...	33,670	38,740	40,284	41,498	43,663	45,113	41,674	42,106	30,807	17,471	6,603
All land in farms.....acres...	15,232,401	14,364,471	13,224,192	12,503,532	10,297,745	9,951,661	9,346,908	8,375,873	5,283,604	3,204,903	1,302,256
Irrigated farms.....number...	25,383	28,218	29,413	28,571	28,898	28,898	27,933	25,283	16,459	9,188	4,323
Land irrigated in census year.....acres...	2,576,580	2,324,571	2,137,237	2,026,280	1,895,048	1,388,200	1,634,321	(¹)	(¹)	608,718	217,005
Irrigation organizations.....number...	927	NA	1,064	NA	482	NA	410	NA	NA	NA	NA
Acres reported irrigated by organizations.....acres...	2,299,457	NA	1,896,032	NA	2,854,343	NA	1,853,762	1,975,456	NA	NA	NA
Kansas and Oklahoma:											
All farms.....number...	199,023	239,146	273,640	305,982	336,014	387,914	369,908	357,274	368,033	281,098	175,443
All land in farms.....acres...	85,953,558	85,653,583	84,617,969	84,751,240	82,976,952	83,344,640	80,766,464	77,377,113	72,244,152	64,651,309	31,820,879
Irrigated farms.....number...	7,073	4,356	1,632	1,632	1,853	1,515	782	577	1,143	1,053	519
Land irrigated in census year.....acres...	959,733	439,702	172,757	98,485	87,309	46,196	59,048	(¹)	(¹)	26,379	20,818
Irrigation organizations.....number...	16	NA	13	NA	41	NA	12	NA	NA	NA	NA
Acres reported irrigated by organizations.....acres...	106,468	NA	78,489	NA	42,984	NA	54,721	34,766	NA	NA	NA
Louisiana:											
All farms.....number...	74,438	111,127	124,181	129,295	150,007	170,216	161,445	135,463	120,546	115,969	69,294
All land in farms.....acres...	10,347,328	11,441,343	11,202,278	10,039,697	9,996,108	10,444,288	9,355,437	10,019,822	10,439,481	11,059,127	9,544,219
Irrigated farms.....number...	4,817	6,897	7,438	7,185	7,037	6,583	5,888	6,471	2,690	4,531	NA
Land irrigated in census year.....acres...	484,850	707,818	576,775	535,619	413,969	361,943	400,375	(¹)	(¹)	201,685	84,377
Irrigation organizations.....number...	203	NA	321	NA	49	NA	86	NA	NA	NA	NA
Acres reported irrigated by organizations.....acres...	185,539	NA	260,897	NA	198,431	NA	224,462	195,209	NA	NA	NA
Montana:											
All farms.....number...	29,559	33,061	35,085	37,747	41,823	50,564	47,495	57,677	26,214	13,370	5,603
All land in farms.....acres...	64,081,291	61,468,903	59,247,424	58,787,318	46,451,534	47,511,868	44,659,152	35,070,656	13,545,603	11,844,454	1,964,197
Irrigated farms.....number...	11,935	13,114	13,457	12,997	15,087	13,864	11,925	10,807	8,970	8,043	3,706
Land irrigated in census year.....acres...	1,874,520	1,890,671	1,716,792	1,555,480	1,587,602	1,272,054	1,343,035	(¹)	(¹)	951,154	350,582
Irrigation organizations.....number...	1,050	NA	1,234	NA	432	NA	224	NA	NA	NA	NA
Acres reported irrigated by organizations.....acres...	1,347,197	NA	1,149,358	NA	1,047,204	NA	709,638	705,114	NA	NA	NA
Nebraska:											
All farms.....number...	90,475	100,846	107,183	111,756	121,062	133,616	129,548	124,417	129,678	121,525	113,608
All land in farms.....acres...	47,755,708	47,486,580	47,466,828	47,752,942	47,343,981	46,615,762	44,708,565	42,225,475	38,622,021	29,911,779	21,593,444
Irrigated farms.....number...	18,936	12,900	9,680	7,156	6,913	5,140	6,602	3,621	1,852	1,932	214
Land irrigated in census year.....acres...	2,077,926	1,173,369	876,259	631,762	473,775	345,417	404,481	(¹)	(¹)	148,538	11,744
Irrigation organizations.....number...	68	NA	68	NA	97	NA	66	NA	NA	NA	NA
Acres reported irrigated by organizations.....acres...	706,339	NA	508,161	NA	640,047	NA	475,145	374,550	NA	NA	NA

See footnotes at end of table.

SUMMARY

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Summary Table 6.—NUMBER OF FARMS, IRRIGATED FARMS, LAND IRRIGATED, NUMBER OF IRRIGATION ORGANIZATIONS, AND LAND IRRIGATED BY IRRIGATION ORGANIZATIONS: 1890 TO 1959—Continued

[Interstate organizations are counted once in each State, but only once in 18 States total. Acres irrigated is only part within State; acres irrigated direct by two or more organizations are counted twice. See text.]

State and item	1959	1954	1950	1945	1940	1935	1930	1920	1910	1900	1890
Nevada:											
All farms.....number...	2,354	2,857	3,110	3,429	3,573	3,696	3,442	3,163	2,689	2,184	1,277
All land in farms.....acres...	10,942,936	8,231,270	7,063,252	6,178,004	3,785,106	3,621,769	4,080,906	2,397,163	2,714,727	2,565,667	1,661,416
Irrigated farms.....number...	2,110	2,509	2,819	3,072	3,264	2,927	3,031	2,718	2,406	1,906	1,167
Land irrigated in											
census year.....acres...	542,976	567,498	727,498	674,204	755,636	253,286	390,192	(1)	(1)	504,168	224,403
Irrigation organi-											
sations.....number...	116	NA	157	NA	102	NA	47	NA	NA	NA	NA
Acres reported irrigated											
by organizations.....acres...	263,005	NA	286,299	NA	385,589	NA	169,730	205,546	NA	NA	NA
New Mexico:											
All farms.....number...	15,919	21,070	23,599	29,695	34,105	41,369	31,404	29,844	35,676	12,311	4,458
All land in farms.....acres...	46,293,207	49,450,885	47,521,809	49,608,445	38,860,427	34,397,205	30,822,034	24,409,633	11,270,021	5,130,878	787,882
Irrigated farms.....number...	8,850	11,690	12,691	14,299	15,811	17,093	14,347	11,390	12,795	9,128	3,085
Land irrigated in											
census year.....acres...	731,835	649,615	655,287	534,640	436,402	314,319	371,269	(1)	(1)	203,893	91,745
Irrigation organi-											
sations.....number...	447	NA	620	NA	488	NA	502	NA	NA	NA	NA
Acres reported irrigated											
by organizations.....acres...	366,086	NA	384,210	NA	402,673	NA	396,295	387,026	NA	NA	NA
North Dakota:											
All farms.....number...	54,928	61,943	65,401	69,520	73,962	84,606	77,975	77,690	74,360	45,332	27,611
All land in farms.....acres...	41,465,717	41,876,924	41,194,044	41,001,158	37,936,136	39,118,126	38,657,894	36,214,751	28,426,650	15,542,640	7,660,333
Irrigated farms.....number...	471	399	304	206	479	273	340	13	54	NA	7
Land irrigated in											
census year.....acres...	47,656	37,672	35,294	22,814	19,975	11,759	10,651	(1)	(1)	4,872	445
Irrigation organi-											
sations.....number...	12	NA	6	NA	13	NA	1	NA	NA	NA	NA
Acres reported irrigated											
by organizations.....acres...	39,849	NA	34,405	NA	19,383	NA	6,089	8,766	NA	NA	NA
Oregon:											
All farms.....number...	42,573	54,441	59,827	63,125	61,829	64,826	55,153	50,206	45,502	35,837	25,530
All land in farms.....acres...	21,236,298	21,047,340	20,327,683	19,754,257	17,988,307	17,397,549	16,548,678	13,542,318	11,685,110	10,071,328	6,909,888
Irrigated farms.....number...	17,724	19,826	17,663	15,597	16,159	15,243	11,387	9,154	6,669	4,636	3,150
Land irrigated in											
census year.....acres...	1,384,284	1,490,366	1,306,810	1,129,059	1,030,228	578,838	637,967	(1)	(1)	388,310	177,944
Irrigation organi-											
sations.....number...	650	NA	755	NA	268	NA	205	NA	NA	NA	NA
Acres reported irrigated											
by organizations.....acres...	846,182	NA	739,052	NA	594,171	NA	447,872	395,536	NA	NA	NA
South Dakota:											
All farms.....number...	55,727	62,520	66,452	68,705	72,454	83,303	83,137	74,637	77,664	52,622	50,158
All land in farms.....acres...	44,850,666	44,949,473	44,785,529	43,031,964	39,473,584	37,101,871	36,470,083	34,636,491	26,016,892	19,070,616	11,396,460
Irrigated farms.....number...	1,002	923	807	708	967	974	763	1,198	500	606	189
Land irrigated in											
census year.....acres...	115,629	90,371	78,669	52,895	54,073	56,565	59,361	(1)	(1)	43,676	15,717
Irrigation organi-											
sations.....number...	25	NA	24	NA	41	NA	16	NA	NA	NA	NA
Acres reported irrigated											
by organizations.....acres...	83,984	NA	67,539	NA	49,592	NA	55,839	69,018	NA	NA	NA
Texas:											
All farms.....number...	227,071	292,947	331,567	384,977	418,002	501,017	495,489	436,033	417,770	352,190	228,126
All land in farms.....acres...	34,217,559	34,812,753	34,538,004	34,337,744	33,683,372	33,597,389	32,707,130	31,402,621	30,435,067	28,807,017	25,406,597
Irrigated farms.....number...	27,884	26,315	21,427	15,130	19,568	16,435	10,861	5,974	5,238	1,325	623
Land irrigated in											
census year.....acres...	5,655,638	4,707,028	3,131,534	1,320,216	894,638	568,533	594,287	(1)	(1)	49,652	18,419
Irrigation organi-											
sations.....number...	103	NA	122	NA	116	NA	80	NA	NA	NA	NA
Acres reported irrigated											
by organizations.....acres...	943,818	NA	1,042,714	NA	708,131	NA	666,626	475,440	NA	NA	NA
Utah:											
All farms.....number...	17,811	22,826	24,176	26,322	25,411	30,695	27,159	25,662	21,676	19,387	10,517
All land in farms.....acres...	12,658,518	12,262,222	10,865,165	10,309,107	7,302,007	6,239,318	5,613,101	5,050,410	3,997,699	4,116,951	1,323,705
Irrigated farms.....number...	15,701	19,406	21,126	23,543	22,612	24,332	23,847	22,218	19,709	17,924	9,724
Land irrigated in											
census year.....acres...	1,061,683	1,072,682	1,137,995	1,124,081	911,135	583,183	917,139	(1)	(1)	629,293	263,473
Irrigation organi-											
sations.....number...	984	NA	1,058	NA	822	NA	684	NA	NA	NA	NA
Acres reported irrigated											
by organizations.....acres...	1,109,620	NA	1,083,250	NA	1,386,921	NA	1,151,885	1,204,764	NA	NA	NA
Washington:											
All farms.....number...	51,577	65,175	69,820	79,887	81,686	84,381	70,904	66,288	56,192	33,202	18,056
All land in farms.....acres...	18,716,972	17,641,429	17,369,245	16,719,870	15,181,815	14,680,091	13,533,778	13,244,720	11,712,235	8,499,297	4,179,190
Irrigated farms.....number...	19,292	18,844	16,928	15,974	17,426	18,186	15,949	13,271	7,664	3,513	1,046
Land irrigated in											
census year.....acres...	1,006,969	778,135	589,035	520,153	493,982	422,335	405,027	(1)	(1)	135,470	48,799
Irrigation organi-											
sations.....number...	350	NA	441	NA	246	NA	200	NA	NA	NA	NA
Acres reported irrigated											
by organizations.....acres...	847,752	NA	513,583	NA	684,613	NA	411,268	387,684	NA	NA	NA
Wyoming:											
All farms.....number...	9,744	11,402	12,614	13,076	15,018	17,487	16,011	15,748	10,987	6,095	3,125
All land in farms.....acres...	36,199,666	34,989,064	34,420,892	33,116,554	28,025,979	28,161,911	23,525,234	11,809,351	8,543,010	8,124,536	1,830,432
Irrigated farms.....number...	6,412	7,130	7,831	7,793	8,637	7,860	7,308	6,449	6,297	3,721	1,917
Land irrigated in											
census year.....acres...	1,469,911	1,262,632	1,431,767	1,353,873	1,284,027	773,930	978,106	(1)	(1)	605,878	229,676
Irrigation organi-											
sations.....number...	686	NA	693	NA	243	NA	200	NA	NA	NA	NA
Acres reported irrigated											
by organizations.....acres...	1,097,540	NA	839,939	NA	752,366	NA	570,311	483,362	NA	NA	NA

NA Not available.

Available data not comparable.

IRRIGATION OF AGRICULTURAL LANDS

Summary Table 7.—NUMBER OF IRRIGATION ORGANIZATIONS AND ACREAGE IRRIGATED BY TYPE OF ORGANIZATION: 1920 TO 1959

[Interstate organizations are counted in each State in which they had irrigation works, but only once in 18 States total. For interstate organizations data represent only that part within the State. See text.]

State and year	Total irrigation by organizations		Mutual				Commercial		District		
			Unincorporated		Incorporated						
	Number	Acres irrigated	Number	Acres irrigated	Number	Acres irrigated	Number	Acres irrigated	Number	Acres irrigated	
18 States, total:											
1959.....	8,749	17,700,841	4,989	2,067,317	2,737	6,732,753	246	572,912	598	6,920,527	
1950.....	10,491	14,974,785	6,464	2,129,377	2,884	5,637,204	401	948,675	483	4,962,413	
1940.....	5,583	16,377,775	1,676	1,006,159	2,678	6,504,526	273	1,143,359	441	3,807,967	
1930.....	4,342	13,130,663	1,320	6,271,334	(1)	(1)	389	1,224,463	363	3,452,279	
1920.....	NA	12,339,434	NA	6,580,325	NA	(1)	NA	1,819,601	NA	1,822,887	
Arizona:											
1959.....	155	643,846	42	17,983	34	308,784	...	...	15	187,068
1950.....	163	555,958	61	16,503	37	290,663	...	(D)	12	131,373	
1940.....	103	580,202	29	11,153	32	71,981	2	12,635	14	77,164	
1930.....	92	501,754	142	158,733	(1)	(1)	3	32,600	15	117,869	
1920.....	NA	387,054	NA	114,482	NA	(1)	NA	14,500	NA	300	
California:											
1959.....	1,075	4,184,482	384	75,038	432	1,035,041	51	158,517	173	2,836,277	
1950.....	1,506	3,135,281	709	126,605	561	761,621	80	296,439	114	1,821,295	
1940.....	1,246	3,171,568	284	109,390	638	788,784	104	391,976	101	1,778,784	
1930.....	965	3,011,175	1577	1,853,547	(1)	(1)	200	312,313	84	1,598,830	
1920.....	NA	2,716,170	NA	1,215,696	NA	(1)	NA	873,499	NA	577,168	
Colorado:											
1959.....	1,933	2,669,677	1,261	543,826	642	1,938,870	4	2,740	14	161,657	
1950.....	2,302	2,399,618	1,579	559,708	686	1,652,636	6	155,216	20	155,216	
1940.....	848	2,827,803	251	158,075	500	2,222,912	53	115,280	21	186,925	
1930.....	583	2,423,911	1,531	1,789,909	(1)	(1)	28	286,846	15	230,400	
1920.....	NA	2,333,973	NA	1,789,385	NA	(1)	NA	212,128	NA	248,409	
Idaho:											
1959.....	927	2,299,457	497	211,622	367	1,295,602	1	(D)	53	676,471	
1950.....	1,064	1,896,032	648	220,841	348	1,035,999	3	450	54	567,261	
1940.....	482	2,854,343	116	67,522	289	1,205,821	5	8,719	51	348,363	
1930.....	410	1,853,762	1,353	1,198,482	(1)	(1)	...	...	43	304,010
1920.....	NA	1,975,456	...	1,538,421	NA	(1)	NA	6,503	NA	355,995	
Kansas and Oklahoma:											
1959.....	16	106,468	2	(D)	8	45,774	...	...	2	(D)
1950.....	13	78,489	4	2,013	8	43,920	...	...	...	...
1940.....	41	42,984	2	40,243	13	...	1	(D)	...	...
1930.....	12	54,721	17	157,991	(1)	(1)	2	16,000	...	...
1920.....	NA	34,766	NA	134,516	NA	(1)	NA	150	...	...
Louisiana:											
1959.....	203	185,539	37	(D)	1	(D)	165	175,837	...	...
1950.....	321	260,897	47	15,725	4	1,574	270	243,588	...	...
1940.....	49	198,341	12	1,701	32	36,999	28	159,764	...	...
1930.....	86	224,642	...	...	...	...	85	224,625	...	...
1920.....	NA	195,209	NA	110,635	NA	(1)	NA	184,574	...	...
Montana:											
1959.....	1,050	1,347,197	787	362,973	203	491,189	...	...	35	309,869
1950.....	1,234	1,149,358	994	323,918	158	339,246	3	528	39	236,790	
1940.....	432	1,047,204	126	158,840	132	417,820	17	141,890	26	83,870	
1930.....	224	709,638	1180	1,418,862	(1)	(1)	8	22,379	29	83,870	
1920.....	NA	705,114	NA	1,393,257	NA	(1)	NA	34,115	NA	35,153	
Nebraska:											
1959.....	68	706,339	9	(D)	17	64,742	1	(D)	40	600,265	
1950.....	68	508,161	11	5,873	15	43,289	1	...	39	445,138	
1940.....	97	640,047	15	61,617	24	(1)	5	28,723	38	291,368	
1930.....	66	475,145	120	154,811	(1)	(1)	10	53,574	31	219,590	
1920.....	NA	374,550	NA	155,408	NA	(1)	NA	25,335	NA	206,206	
Nevada:											
1959.....	116	263,005	61	49,199	42	79,179	1	(D)	4	120,327	
1950.....	157	286,299	90	92,964	47	74,197	2	(D)	4	86,577	
1940.....	102	385,589	38	85,039	39	144,914	2	(D)	2	67,940	
1930.....	47	169,730	132	132,267	(1)	(1)	3	5,855	...	...
1920.....	NA	205,546	NA	169,877	NA	(1)	NA	5,990	NA	80,000	
New Mexico:											
1959.....	447	366,086	363	100,758	57	33,680	1	(D)	11	(D)	
1950.....	620	384,210	445	105,874	80	51,037	1	...	7	84,673	
1940.....	488	402,673	361	123,156	83	45,030	5	22,637	11	86,675	
1930.....	532	396,295	1,462	1,233,286	(1)	(1)	5	16,192	5	22,000	
1920.....	NA	387,026	NA	1,264,610	NA	(1)	NA	19,871	NA	15,008	
North Dakota:											
1959.....	12	39,849	1	(D)	1	(D)	...	...	6	(D)
1950.....	6	34,405	...	...	1	(D)	...	...	4	27,375
1940.....	13	19,383	...	...	2	500	...	...	3	4,605
1930.....	1	6,089	...	...	...	...	...	...	...	...
1920.....	NA	8,766	...	...	...	...	...	...	...	...
Oregon:											
1959.....	650	846,182	473	193,100	115	146,039	...	...	55	(D)
1950.....	755	739,052	580	228,868	117	117,748	...	...	47	252,069
1940.....	268	594,171	90	46,122	102	115,617	7	7,123	39	204,271	
1930.....	205	447,872	1,150	1,184,940	(1)	(1)	4	12,619	35	160,974	
1920.....	NA	395,556	NA	1,186,037	NA	(1)	NA	27,538	NA	92,081	

See footnotes at end of table.

Summary Table 7.—NUMBER OF IRRIGATION ORGANIZATIONS AND ACREAGE IRRIGATED BY TYPE

OF ORGANIZATION: 1920 TO 1959—Continued

[Interstate organizations are counted in each State in which they had irrigation works, but only once in 18 States total. For interstate organizations data represent only that part within the State. See text.]

State and year	U. S. Bureau of Reclamation; projects and storage systems operated by bureau		U. S. Bureau of Indian Affairs		State		City		Other	
	Number	Acres irrigated	Number	Acres irrigated	Number	Acres irrigated	Number	Acres irrigated	Number	Acres irrigated
18 States, total:										
1959.....	54	710,904	123	578,635	7	44,408	35	73,385	...	...
1950.....	37	682,413	141	506,076	31	51,782	50	96,845	...	50
1940.....	97	3,284,474	188	515,765	143	19,022	62	91,187	25	5,316
1930.....	30	1,485,028	110	331,840	40	11,489	45	121,218	45	233,016
1920.....	NA	1,254,569	NA	284,551	NA	5,620	NA	40,146	NA	531,735
Arizona:										
1959.....	2	(D)	59	125,574	1	(D)	2	(D)	...	...
1950.....	2	55,671	48	60,758	...	...	2	(D)	...	...
1940.....	3	323,086	20	84,183	...	...	1	301	...	...
1930.....	3	278,584	24	13,555	4	111	1	301	1	1
1920.....	NA	248,814	NA	8,733	NA	...	NA	200	NA	25
California:										
1959.....	13	26,255	7	3,354	...	...	15	50,000	...	...
1950.....	6	86,637	14	2,755	...	...	22	39,929	...	...
1940.....	8	46,290	51	4,106	11	4,729	24	46,419	5	1,090
1930.....	4	31,998	27	2,908	15	9,186	33	79,590	25	122,803
1920.....	NA	36,622	NA	697	NA	2,536	NA	6,213	NA	5,339
Colorado:										
1959.....	6	...	2	9,672	...	...	4	12,912	...	...
1950.....	4	...	1	8,193	...	...	5	8,992	...	...
1940.....	5	96,211	1	6,875	1	...	12	21,068	4	457
1930.....	2	81,883	1	4,813	...	...	3	26,700	3	3,360
1920.....	NA	71,145	NA	4,266	NA	80	NA	5,825	NA	2,725
Idaho:										
1959.....	4	76,767	3	(D)	...	...	2	(D)	...	...
1950.....	4	39,037	6	32,428	...	...	1	26	...	...
1940.....	13	1,187,353	6	34,365	1	...	1	1,000	...	...
1930.....	3	275,954	6	34,991	1	125	...	...	4	40,200
1920.....	NA	253,759	NA	36,775	NA	10	NA	160	NA	383,833
Kansas and Oklahoma:										
1959.....	4	6,470	...	...	...	...	...	...	...	...
1950.....	1	32,256	...	...	...	...	...	...	...	...
1940.....	...	...	18	334	4	238	1	(D)	2	1,869
1930.....	...	...	...	...	3	730	...	...	...	...
1920.....	...	...	...	...	NA	100	...	...	...	...
Louisiana:										
1959.....	...	...	...	...	...	...	...	...	...	...
1950.....	...	...	...	...	...	...	...	...	...	...
1940.....	...	...	...	...	1	27	...	...	...	...
1930.....	...	...	...	...	1	17	...	...	...	...
1920.....	...	...	...	...	...	...	...	...	...	...
Montana:										
1959.....	4	6,887	17	157,791	4	18,488	...	...	...	...
1950.....	3	38,568	7	158,106	29	51,752	...	(D)	...	...
1940.....	18	186,002	8	173,522	105	9,110	...	...	...	...
1930.....	4	98,327	5	75,844	1	360	...	...	1	10,000
1920.....	NA	88,291	NA	98,887	NA	20	NA	320	NA	55,071
Nebraska:										
1959.....	...	...	...	...	1	(D)	...	...	...	...
1950.....	2	13,231	...	...	...	...	...	...	...	...
1940.....	4	257,401	...	...	7	762	...	...	4	176
1930.....	1	147,082	...	...	3	134	...	...	1	10
1920.....	NA	87,558	...	...	...	...	...	...	NA	43
Nevada:										
1959.....	...	...	8	(D)	...	...	...	...	...	...
1950.....	...	...	14	17,580	...	...	...	...	...	...
1940.....	3	69,345	14	17,607	2	744	...	...	2	(D)
1930.....	1	54,040	6	6,148	3	220	...	...	2	71,200
1920.....	NA	44,324	NA	5,321	NA	12	NA	22	...	...
New Mexico:										
1959.....	3	132,325	12	6,712	...	...	...	...	...	...
1950.....	1	105,845	42	26,843	...	...	2	(D)	...	...
1940.....	2	98,064	25	27,111	...	...	1	...	...	...
1930.....	2	103,090	25	20,824	1	20	...	...	2	883
1920.....	NA	77,678	NA	9,072	NA	77	NA	600	NA	110
North Dakota:										
1959.....	3	1,319	...	...	...	...	...	...	...	...
1950.....	...	...	1	(D)	1	(D)	...	...	...	...
1940.....	1	14,413	7	147	...	...	...	...	...	...
1930.....	1	6,089	...	...	...	...	...	...	...	...
1920.....	NA	8,766	...	...	...	...	...	...	...	...
Oregon:										
1959.....	3	12,645	2	1,790	...	...	2	(D)	...	...
1950.....	5	147,715	3	2,163	...	...	3	489	...	...
1940.....	19	215,445	7	5,168	...	...	2	425	2	...
1930.....	6	63,829	4	4,135	...	...	...	...	3	23,090
1920.....	NA	54,981	NA	4,000	...	...	NA	330	NA	30,769

See footnotes at end of table.

IRRIGATION OF AGRICULTURAL LANDS

Summary Table 7.—NUMBER OF IRRIGATION ORGANIZATIONS AND ACREAGE IRRIGATED BY TYPE
OF ORGANIZATION: 1920 TO 1959—Continued

[Interstate organizations are counted in each State in which they had irrigation works, but only once in 18 States total. For interstate organizations data represent only that part within the State. See text.]

State and year	Total irrigation by organizations		Mutual				Commercial		District	
			Unincorporated		Incorporated					
	Number	Acres irrigated	Number	Acres irrigated	Number	Acres irrigated	Number	Acres irrigated	Number	Acres irrigated
South Dakota:										
1959.....	25	83,984	9	3,915	11	13,037	...	...	1	(D)
1950.....	24	67,539	13	9,628	8	6,689	...	...	1	50,767
1940.....	41	49,592	8	2,204	13	12,329	...	...	...	...
1930.....	16	55,839	15	19,646	(1)	(1)	...	...	...	...
1920.....	NA	69,018	NA	10,080	NA	(1)	NA	2,280	...	...
Texas:										
1959.....	103	943,818	25	17,069	4	27,601	18	(D)	51	647,223
1950.....	122	1,042,714	34	15,072	11	38,013	27	329,072	45	590,529
1940.....	116	708,131	23	9,640	15	49,663	23	190,763	41	382,458
1930.....	80	666,626	25	88,691	(1)	(1)	20	89,996	32	452,461
1920.....	NA	475,440	NA	103,378	NA	(1)	NA	262,892	NA	88,571
Utah:										
1959.....	984	1,109,620	316	77,985	651	912,058	1	(D)	8	20,167
1950.....	1,058	1,083,250	406	100,181	634	874,388	2	...	5	11,079
1940.....	822	1,386,921	164	114,229	618	885,122	11	85,600	9	31,394
1930.....	684	1,151,885	166	194,680	(1)	(1)	10	99,834	4	8,125
1920.....	NA	1,204,764	NA	1,014,649	NA	(1)	NA	86,911	NA	21,143
Washington:										
1959.....	350	847,752	209	50,486	66	56,651	2	(D)	65	274,703
1950.....	441	513,583	273	39,697	82	57,793	3	1,780	74	260,243
1940.....	246	684,613	78	23,748	73	67,228	4	7,290	66	129,946
1930.....	200	411,268	115	42,743	(1)	(1)	10	9,474	62	97,772
1920.....	NA	387,684	NA	93,192	NA	(1)	NA	21,705	NA	79,918
Wyoming:										
1959.....	686	1,057,540	321	334,916	113	283,851	1	(D)	37	364,688
1950.....	693	839,959	538	275,397	120	241,211	2	...	27	232,058
1940.....	243	752,366	86	86,752	107	352,722	8	10,931	23	120,988
1930.....	200	570,311	176	130,086	(1)	(1)	3	51,460	13	86,174
1920.....	NA	483,362	NA	286,702	NA	(1)	NA	57,800	NA	22,935

D Data not shown to avoid disclosure of information for individual organizations.

NA Not available.

¹Unincorporated and incorporated not reported separately for 1930 and 1920. Data for incorporated mutual organizations combined with unincorporated mutual organizations.²Commercial totals includes acres irrigated for districts.³Acres irrigated by unincorporated organizations in Oklahoma not included.

Summary Table 7.—NUMBER OF IRRIGATION ORGANIZATIONS AND ACREAGE IRRIGATED BY TYPE
OF ORGANIZATION: 1920 TO 1959—Continued

[Interstate organizations are counted in each State in which they had irrigation works, but only once in 18 States total. For interstate organizations data represent only that part within the State. See text.]

State and year	U.S. Bureau of Reclamation; projects and storage systems operated by bureau		U. S. Bureau of Indian Affairs		State		City		Other	
	Number	Acres irrigated	Number	Acres irrigated	Number	Acres irrigated	Number	Acres irrigated	Number	Acres irrigated
South Dakota:										
1959.....	2	11,282	2	(D)	...	...	...	...	...	...
1950.....	1	(D)	1	455	...	...	...	...	...	...
1940.....	1	34,222	18	815	1	22	...	...	...	...
1930.....	1	36,193	...	...	...	...	...	...	...	...
1920.....	NA	56,638	NA	20	...	...	...	...	...	...
Texas:										
1959.....	1	59,023	...	...	1	(D)	3	3,768	...	...
1950.....	2	67,079	...	...	...	...	3	2,949	...	...
1940.....	2	73,834	...	...	4	322	8	1,451	...	...
1930.....	1	65,442	...	...	2	36	...	...	...	...
1920.....	NA	20,284	...	...	NA	65	NA	250	...	...
Utah:										
1959.....	1	1,030	2	62,528	...	...	5	(D)	...	...
1950.....	1	...	3	54,452	...	...	7	2,179	...	...
1940.....	7	200,078	7	58,594	...	...	6	11,904	...	...
1930.....	2	40,000	5	54,619	...	...	7	14,627	...	...
1920.....	NA	25,285	NA	25,270	...	...	NA	24,206	NA	3,300
Washington:										
1959.....	3	333,179	5	130,553	...	...	...	...	...	...
1950.....	3	37,740	2	115,353	...	...	4	977	...	...
1940.....	12	328,901	4	118,637	4	159	5	8,644	...	...
1930.....	3	118,667	7	92,367	3	245	...	...	...	...
1920.....	NA	122,869	NA	69,510	NA	200	...	...	NA	290
Wyoming:										
1959.....	7	40,540	6	29,767	...	...	1	(D)	...	...
1950.....	5	38,634	1	27,000	...	...	...	...	...	...
1940.....	10	154,051	2	23,681	1	...	...	...	6	3,241
1930.....	4	85,886	1	21,636	...	...	...	...	3	22,069
1920.....	NA	53,555	NA	22,000	NA	2,120	NA	2,020	NA	36,230

Summary Table 8.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS,
BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950

Item (For definitions and explanations, see text)	18 States, total	North Pacific Coast (I)					
		Total	Excluding Columbia River (I-A)	Columbia River			
				Total	Below Snake River (I-B)	Above Snake River excluding Yakima River (I-C)	Yakima River (I-D)
1 Total acres irrigated in Census year.....1959...	31,222,967	4,861,000	174,000	4,687,000	533,000	788,000	441,000
2 1949...	23,451,176	3,974,363	119,319	3,855,044	398,005	469,856	422,622
3 Irrigation organizations.....organizations 1959...	8,749	2,056	121	1,935	244	460	121
4 1949...	10,491	2,495	147	2,348	311	577	157
5 Service area, 1959:							
6 Farm area reported served by organizations.....acres 1959...	21,165,254	4,280,403	83,399	4,197,504	275,841	749,502	474,060
7 Farm area reported irrigated by organizations.....acres 1959...	17,700,841	3,921,995	75,204	3,846,791	265,851	628,854	447,079
8 Water users served, total.....water users 1959...	1,612,111	175,323	10,704	164,619	13,266	39,542	25,132
9 Farm irrigation water users.....water users 1959...	383,654	91,808	5,396	86,412	7,550	19,344	14,020
10 Residential water users.....water users 1959...	1,204,339	82,146	4,849	77,297	5,139	20,178	10,994
11 Other water users.....water users 1959...	24,118	1,369	459	910	577	20	118
LAND IRRIGATED BY SOURCE OF WATER, 1959							
12 Ground water sources.....acres...	14,011,307	743,000	37,000	706,000	115,000	79,000	13,000
13 Surface water sources.....acres...	17,211,660	4,118,000	137,000	3,981,000	418,000	709,000	428,000
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
14 Total entering conveyance systems in basin.....organizations... acre-feet...	8,668 72,997,259	2,041 22,859,439	121 394,093	1,920 22,465,346	242 1,428,904	498 3,175,584	119 2,595,138
15 From another drainage basin.....organizations... acre-feet...	...	3 44,921	2 36,356	1 8,365	...	1 64,756	...
16 From drainage basin number.....D. B. No....	...	...	II-A	...	...	I-D	...
17 From natural sources within basin.....organizations... acre-feet...	7,994 72,997,259	1,909 22,814,518	121 357,737	1,788 22,456,781	239 1,428,904	439 3,110,828	112 2,595,138
18 Surface water.....organizations... acre-feet...	6,984 68,685,789	1,715 21,902,234	121 330,537	1,715 21,551,697	226 1,421,503	419 2,983,138	108 2,587,493
19 Ground water.....organizations... acre-feet...	1,266 4,311,470	1 912,284	107 7,200	18 905,084	24 7,401	6 127,690	...
20 From other organizations in the basin.....organizations receiving... acre-feet...	1,123 18,644,449	219 2,667,243	1 9,987	218 2,657,256	7 21,072	32 61,064	8 22,958
21 Total leaving conveyance systems.....organizations... acre-feet...	8,668 72,997,259	2,041 22,859,439	121 394,093	1,920 22,465,346	242 1,428,904	498 3,175,584	119 2,595,138
22 Conveyance loss in basin.....organizations... acre-feet...	7,238 15,847,148	1,706 4,975,653	88 62,808	1,618 4,912,845	151 347,140	368 984,887	111 444,081
23 Conveyed to another drainage basin.....organizations... acre-feet...	...	1 25,855	1 22,055	1 3,800	...	...	...
24 To drainage basin number.....D. B. No....	...	...	II-A	...	...	...	I-C
25 Delivered for use in the basin.....organizations... acre-feet...	8,604 57,150,111	2,032 17,857,931	121 309,230	1,911 17,548,701	242 1,081,764	498 2,190,697	119 2,086,301
26 To farm irrigation water users.....organizations... acre-feet...	8,585 54,471,479	2,030 17,508,723	121 298,901	1,909 17,209,822	242 1,061,547	457 2,161,754	117 2,050,194
27 To residential water users.....organizations... acre-feet...	998 1,607,639	196 300,681	15 4,721	181 290,960	21 17,065	32 26,706	15 9,726
28 For other use.....organizations... acre-feet...	296 1,070,993	62 48,527	4 608	58 47,919	10 3,152	6 2,237	12 26,381
29 Delivered to other irrigation organizations.....organizations delivering... acre-feet...	444 18,644,449	90 2,667,243	1 9,987	89 2,657,256	5 21,072	10 61,064	3 22,958
30 Average delivery of irrigation water per acre irrigated as reported by organizations...acre-feet...	3.1	4.5	4.0	4.5	4.0	3.4	4.6
NEW CAPITAL INVESTMENT, 1950-1959							
31 Expenditures for additional new works and equipment for irrigation and drainage, Jan. 1, 1950-Dec. 31, 1959.....organizations... dollars...	4,177 1,039,593,875	874 231,248,991	56 1,597,062	818 206,156,190	63 2,198,533	197 195,306,171	48 8,651,486

IRRIGATION OF AGRICULTURAL LANDS

Summary Table 8.—NUMBER AND CHARACTERISTICS OF IRRIGATION

	Item (For definitions and explanations, see text)	North Pacific Coast (I)—Continued					South Pacific Coast (II)		
		Columbia River—Continued					Total	Klamath River	Klamath River to Santa Maria River excluding Central Valley
		Snake River							
		Total	Below Weiser, Idaho	Weiser, Idaho to King Hill, Idaho	King Hill, Idaho to American Falls, Idaho	Above American Falls, Idaho			
		(I-E)	(I-F)	(I-G)	(I-H)		(II-A)	(II-B)	
1	Total acres irrigated in Census year..... 1959...	2,925,000	427,000	851,000	864,000	863,000	6,915,000	379,000	493,000
2	..... 1949...	2,564,561	354,169	797,343	691,829	721,220	6,100,040	364,468	386,613
3	Irrigation organizations.....organizations 1959...	1,110	375	259	111	371	1,091	62	39
4	..... 1949...	1,305	442	296	108	466	1,501	60	54
5	Service area, 1959:								
	Farm area reported served by organizations.....acres 1959...	2,697,601	262,228	772,180	829,064	834,129	4,817,092	303,074	34,349
6	Farm area reported irrigated by organizations.....acres 1959...	2,505,007	233,614	743,724	748,717	778,952	3,725,866	285,200	30,646
7	Water users served, total.....water users 1959...	86,679	10,737	32,798	27,633	15,511	1,141,401	8,105	110,163
8	Farm irrigation water users.....water users 1959...	45,498	3,819	19,389	10,429	11,861	110,134	2,993	1,332
9	Residential water users.....water users 1959...	40,986	6,808	13,347	17,196	3,635	1,012,719	5,105	97,373
10	Other water users.....water users 1959...	195	110	62	8	15	18,548	7	11,458
	LAND IRRIGATED BY SOURCE OF WATER, 1959								
11	Ground water sources.....acres...	499,000	13,000	84,000	213,000	189,000	3,902,000	55,000	415,000
12	Surface water sources.....acres...	2,426,000	334,000	767,000	651,000	674,000	3,013,000	324,000	78,000
	WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959								
13	Total entering conveyance systems in basin.....organizations...	1,101	373	254	110	370	1,084	61	39
14	.....acre-feet...	15,330,476	1,004,967	4,453,773	4,586,367	5,386,667	13,616,526	1,163,712	223,169
15	From another drainage basin.....organizations...	1	3	3	...	1	4	1	1
16	.....acre-feet...	8,565	27,539	73,759	...	8,565	609,514	22,955	68,669
17	From drainage basin number.....D. B. No. ....	...	I-F	I-G	...	III-E	...	I-A	II-D
18	From natural sources within basin.....organizations...	998	369	229	103	298	986	61	36
19	.....acre-feet...	15,321,911	977,428	4,380,014	4,586,367	5,378,102	13,007,012	1,141,657	154,500
20	Surface water.....organizations...	962	369	227	90	277	385	61	16
21	.....acre-feet...	14,559,563	977,017	4,106,005	4,317,893	5,158,648	11,352,155	1,087,637	70,379
22	Ground water.....organizations...	59	3	7	19	30	676	4	24
23	.....acre-feet...	762,348	411	274,009	268,474	219,454	1,654,857	54,020	84,121
24	From other organizations in the basin.....organizations receiving...	171	6	57	10	98	222	7	7
25	.....acre-feet...	2,552,162	42,002	529,347	409,363	1,571,450	3,862,891	61,814	20,220
26	Total leaving conveyance systems.....organizations...	1,101	373	254	110	370	1,084	61	39
27	.....acre-feet...	15,330,476	1,004,967	4,453,773	4,586,367	5,386,667	13,616,526	1,163,712	223,169
28	Conveyance loss in basin.....organizations...	989	324	223	91	355	449	52	10
29	.....acre-feet...	3,136,737	144,900	825,534	1,260,595	905,708	2,632,615	319,404	11,971
30	Conveyed to another drainage basin.....organizations...	1	...	3	3	1	2	2	...
31	.....acre-feet...	3,800	...	27,539	73,759	3,800	36,356	36,356	...
32	To drainage basin number.....D. B. No. ....	...	...	I-E	I-F	III-E	...	I-A	...
33	Delivered for use in the basin.....organizations...	1,094	371	252	109	366	1,068	62	35
34	.....acre-feet...	12,189,939	860,067	3,600,700	3,252,013	4,477,159	10,947,555	807,952	211,198
35	To farm irrigation water users.....organizations...	1,093	371	251	109	366	1,056	60	34
36	.....acre-feet...	11,936,327	840,169	3,444,462	3,213,424	4,438,272	9,695,465	770,025	87,414
37	To residential water users.....organizations...	113	17	47	16	33	228	8	10
38	.....acre-feet...	237,463	19,468	148,128	36,529	33,338	794,837	7,877	46,074
39	For other use.....organizations...	28	2	14	3	9	84	2	6
40	.....acre-feet...	16,149	430	8,110	2,060	5,549	457,253	30,050	77,710
41	Delivered to other irrigation organizations.....organizations delivering...	71	4	22	7	39	96	2	6
42	.....acre-feet...	2,552,162	42,002	529,347	409,363	1,571,450	3,862,891	61,814	20,220
43	Average delivery of irrigation water per acre irrigated as reported by organizations...acre-feet...	4.8	3.6	4.6	4.3	5.7	2.6	2.7	2.9
	NEW CAPITAL INVESTMENT, 1950-1959								
44	Expenditures for additional new works and equipment for irrigation and drainage, Jan. 1, 1950-Dec. 31, 1959.....organizations...	511	192	98	45	178	525	37	14
45	.....dollars...	23,495,739	917,166	9,416,913	11,345,616	1,816,044	476,112,643	55,774,975	11,593,453

¹8,000 acre-feet from D. B. No. III-C, 245,200 acre-feet from D. B. No. II-E. ²142,080 acre-feet from D. B. No. II-F, 1,336,181 acre-feet from D. B. No. II-C-D. ³276,708 acre-feet from D. B. No. IV-B, 302,751 acre-feet from D. B. No. III-C. ⁴8,000 acre-feet from D. B. No. III-C, 345,200 acre-feet from D. B. No. II-E. ⁵68,669 acre-feet to D. B. No. II-B, 1,336,181 acre-feet to D. B. No. II-E. ⁶245,200 acre-feet to D. B. No. II-C-D, 861,551 acre-feet to D. B. No. II-F. ⁷302,751 acre-feet to D. B. No. II-D, 8,000 acre-feet to D. B. No. II-C-D, 276,708 acre-feet to D. B. No. IV-B. ⁸6,290 acre-feet to D. B. No. III-D, 8,565 acre-feet to D. B. No. I-R.

SUMMARY

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ORGANIZATIONS, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Continued

South Pacific Coast (II)—Continued					Great Basin (III)					Gulf of California (IV)		
Central Valley					Total	Northwest and Humboldt River (III-A and III-B)	South Central (III-C)	Bonneville Basin excluding Bear River (III-D)	Bear River (III-E)	Total	Gila River excluding Colorado River (IV-A and IV-C)	
Total	Sacramento-San Joaquin Delta area and Sacramento River (II-C and II-D)	San Joaquin River (II-E)	San Joaquin Valley above San Joaquin River (II-F)	Santa Maria River and Basins south (II-G)								
5,495,000	1,960,000	1,197,000	2,338,000	548,000	1,832,000	341,000	484,000	606,000	401,000	3,058,000	1,008,000	1
4,694,280	1,232,068	1,198,468	1,963,744	654,679	2,142,927	556,169	526,917	684,068	375,773	2,972,537	886,019	2
361	143	60	166	629	1,166	42	102	678	346	1,402	105	3
437	149	55	245	951	1,265	68	125	735	339	1,545	124	4
4,479,669	1,058,218	1,080,380	1,621,070	720,001	1,579,618	115,139	294,584	740,249	429,646	2,750,600	532,739	5
3,105,342	802,095	910,623	1,392,624	304,678	1,349,873	82,436	260,658	610,772	396,007	2,433,197	464,334	6
110,747	44,178	32,278	34,291	912,386	94,273	368	8,199	71,928	13,778	84,553	39,724	7
78,201	16,610	29,150	32,441	27,608	42,586	363	2,626	29,320	10,277	41,499	9,326	8
32,329	27,362	3,123	1,844	877,912	51,247	5	5,569	42,182	3,491	39,563	26,967	9
217	206	5	6	6,866	440	...	4	426	10	3,491	3,431	10
2,987,000	762,000	528,000	1,697,000	445,000	397,000	61,000	131,000	127,000	38,000	852,000	797,000	11
2,508,000	1,198,000	669,000	641,000	103,000	1,475,000	280,000	353,000	479,000	363,000	2,206,000	249,000	12
356	139	60	165	628	1,157	42	99	672	346	1,388	105	13
10,805,565	5,897,224	4,832,908	2,760,445	1,492,749	5,098,183	215,512	1,646,250	2,053,235	1,189,476	13,479,510	2,336,193	14
1	3	4	2	2	6	...	...	5	1	2	...	15
8,000	353,200	1,478,261	861,551	579,459	386,846	...	276,708	112,628	3,800	279,628	...	16
...	(1)	(2)	II-E	(2)	...	...	IV-B	(4)	I-H	...	...	17
311	133	36	145	978	1,004	42	72	610	283	1,347	102	18
10,797,565	5,544,024	3,354,647	1,898,894	913,290	4,713,337	215,512	1,369,542	1,940,607	1,185,676	13,199,882	2,336,193	19
240	125	25	96	68	884	42	66	529	247	1,299	79	20
9,970,465	5,463,647	2,847,151	1,659,667	223,674	4,535,318	215,512	1,358,766	1,814,695	1,146,365	11,878,524	1,096,093	21
95	14	22	60	553	165	...	10	112	43	97	54	22
827,100	80,377	507,466	239,227	689,616	176,019	...	10,796	125,912	39,311	1,320,958	1,240,100	23
90	23	30	37	118	222	...	27	126	69	95	8	24
3,199,016	830,987	1,353,857	1,014,172	581,841	817,190	...	193,055	364,126	260,009	9,065,544	302,182	25
356	139	60	165	628	1,157	42	99	672	346	1,388	105	26
10,805,565	5,897,224	4,832,908	2,760,445	1,492,749	5,098,183	215,512	1,646,250	2,053,235	1,189,476	13,479,510	2,336,193	27
239	103	35	106	157	994	39	90	549	317	1,297	103	28
2,209,748	971,856	745,739	492,153	91,492	709,584	38,548	207,573	280,421	183,042	2,620,961	669,894	29
1	4	4	1	...	4	...	2	1	2	7	...	30
68,669	1,404,850	1,206,751	142,080	...	598,944	...	587,459	2,920	14,855	992,463	...	31
...	(5)	(6)	II-E	...	...	...	(7)	IV-D	(8)	...	...	32
352	132	59	164	619	1,149	42	97	668	344	1,374	104	33
8,527,148	3,520,518	2,880,418	2,126,212	1,401,297	3,789,655	176,964	851,218	1,769,894	991,579	9,866,086	1,666,299	34
347	131	58	163	1,145	42	...	97	664	344	1,373	104	35
8,196,670	3,362,177	2,819,536	2,014,997	641,356	3,580,128	176,914	837,383	1,599,633	966,198	9,509,516	1,533,308	36
38	21	4	13	172	241	1	16	186	38	121	11	37
108,670	102,717	2,422	3,531	632,216	121,961	50	5,601	96,141	20,169	272,757	67,263	38
24	15	4	5	52	35	...	3	25	7	28	7	39
221,808	55,624	58,460	107,724	127,685	87,566	...	8,234	74,120	5,212	83,413	65,726	40
29	13	5	14	59	55	...	3	39	13	43	2	41
3,199,016	830,987	1,353,857	1,014,172	581,841	817,190	...	193,055	364,126	260,009	9,065,544	302,182	42
2.6	4.2	3.1	1.4	2.1	2.7	2.1	3.2	2.6	2.4	3.9	3.3	43
200	78	33	94	245	551	6	51	359	135	760	64	44
277,359,158	78,882,999	95,320,749	103,155,410	131,385,057	38,249,602	108,565	917,421	35,741,541	1,482,075	113,045,721	21,644,173	45

IRRIGATION OF AGRICULTURAL LANDS

Summary Table 8.—NUMBER AND CHARACTERISTICS OF IRRIGATION

	Item (For definitions and explanations, see text)	Gulf of California (IV)—Continued						Gulf of Mexico excluding Mississippi River (V)	
		Colorado River						Total	Excluding Rio Grande
		Total	Below Lees Ferry excluding Gila River	Colorado River above Lees Ferry			Total		
				Total	Excluding Green and Gunnison Rivers	Green River			
			(IV-B)	(IV-D)	(IV-E)	(IV-F)		(V-A and V-D)	
1	Total acres irrigated in Census year.....1959...	2,050,000	766,000	1,284,000	463,000	573,000	248,000	5,578,000	3,914,000
2	.....1949...	2,087,538	692,085	1,395,453	539,174	586,882	269,397	4,448,131	2,516,956
3	Irrigation organizations.....organizations 1959...	1,297	110	1,187	561	268	359	826	254
4	.....1949...	1,425	134	1,291	597	249	445	1,195	388
5	Service area, 1959: Farm areas reported served by organizations.....acres 1959...	2,217,861	866,843	1,351,018	553,202	523,547	274,269	2,579,772	856,822
6	Farm areas reported irrigated by organizations.....acres 1959...	1,968,863	793,631	1,175,232	461,911	476,420	236,901	1,791,975	464,479
7	Water users served, total.....water users 1959...	44,829	17,086	27,743	15,404	7,292	5,047	59,789	6,746
8	Farm irrigation water users.....water users 1959...	32,173	10,687	21,486	10,869	6,004	4,613	48,238	5,395
9	Residential water users.....water users 1959...	12,596	6,381	6,215	4,503	1,288	424	11,431	1,282
10	Other water users.....water users 1959...	60	18	42	32	...	10	120	69
	LAND IRRIGATED BY SOURCE OF WATER, 1959								
11	Ground water sources.....acres...	93,000	75,000	18,000	8,000	8,000	2,000	3,935,000	3,347,000
12	Surface water sources.....acres...	1,977,000	691,000	1,266,000	455,000	565,000	246,000	1,643,000	567,000
	WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959								
13	Total entering conveyance systems in basin.....organizations... acre-feet...	1,283 11,143,317	110 5,854,472	1,173 5,288,845	556 2,406,944	266 1,735,891	352 1,147,302	822 4,959,058	254 1,861,875
14	From another drainage basin.....organizations... acre-feet...	2 279,628	1 276,708	1 2,920	1 2,920	...	1 1,292	...	1 1,045
15	From drainage basin number.....D. B. No. ....	...	III-C	...	III-D	...	IV-D	...	V-B
16	From natural sources within basin.....organizations... acre-feet...	1,245 10,863,689	100 5,577,764	1,145 5,285,925	541 2,404,024	261 1,735,891	343 1,146,010	793 4,959,058	252 1,860,830
17	Surface water.....organizations... acre-feet...	1,220 10,782,831	83 5,529,283	1,137 5,253,546	536 2,373,694	260 1,734,060	341 1,145,846	605 4,765,425	107 1,749,546
18	Ground water.....organizations... acre-feet...	43 80,858	26 48,479	17 32,379	14 30,330	1 1,885	2 164	185 193,633	159 111,284
19	From other organizations in the basin.....organizations receiving... acre-feet...	87 8,763,362	14 8,453,034	73 310,328	43 178,057	10 91,879	20 40,392	49 191,952	1 12,000
20	Total leaving conveyance systems.....organizations... acre-feet...	1,283 11,143,317	110 5,854,472	1,173 5,288,845	556 2,409,644	266 1,735,891	352 1,147,302	822 4,959,058	254 1,861,875
21	Conveyance loss in basin.....organizations... acre-feet...	1,194 1,951,067	87 1,147,988	1,107 803,079	523 416,118	251 192,425	334 194,536	731 1,023,643	207 166,342
22	Conveyed to another drainage basin.....organizations... acre-feet...	7 992,463	1 553,416	6 439,047	5 334,001	3 106,338	...	1 480	...
23	To drainage basin number.....D. B. No. ....	...	(²)	...	(⁴)	(³)	...	...	...
24	Delivered for use in the basin.....organizations... acre-feet...	1,270 8,199,787	108 4,153,068	1,162 4,046,719	548 1,656,825	264 1,437,128	351 952,766	819 3,934,935	254 1,695,333
25	To farm irrigation water users.....organizations... acre-feet...	1,269 7,976,608	108 4,106,568	1,161 3,870,040	548 1,497,310	263 1,427,684	351 945,046	818 3,658,590	254 1,508,886
26	To residential water users.....organizations... acre-feet...	110 205,492	31 43,521	79 161,971	52 148,909	17 9,444	10 3,618	70 48,739	4 26,618
27	For other use.....organizations... acre-feet...	21 17,687	4 2,999	17 14,708	12 10,606	...	5 4,102	29 227,606	10 160,029
28	Delivered to other irrigation organizations.....organizations delivering... acre-feet...	41 8,763,362	7 8,453,034	34 310,328	13 178,057	11 91,879	10 40,392	28 191,952	1 12,000
29	Average delivery of irrigation water per acre irrigated as reported by organizations... acre-feet...	4.1	5.2	3.3	3.2	3.0	4.0	2.0	3.2
	NEW CAPITAL INVESTMENT, 1950-1959								
30	Expenditures for additional new works and equipment for irrigation and drainage, Jan. 1, 1950-Dec. 31, 1959.....organizations... dollars...	726 91,401,548	58 66,506,361	668 24,895,187	298 22,369,150	175 1,808,219	195 717,818	419 34,546,306	130 6,383,213

D Data not shown to avoid disclosure of information for individual organizations. ¹480 acre-feet from D. B. No. V-C, 45,528 acre-feet from D. B. No. IV-D. ²287,181 acre-feet from D. B. No. IV-B, 21,964 acre-feet from D. B. No. VI-D. ³276,708 acre-feet to D. B. No. II-G, 276,708 acre-feet to D. B. No. III-C. ⁴287,181 acre-feet to D. B. No. VI-E, 1,292 acre-feet to D. B. No. IV-F, 45,528 acre-feet to D. B. No. VI-B. ⁵101,979 acre-feet to D. B. No. III-D. ⁶21,964 acre-feet to D. B. No. VI-E.

SUMMARY

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ORGANIZATIONS, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Continued

Gulf of Mexico excluding Mississippi River (V)—Continued			Mississippi River (VI)											Hudson Bay (Red River of the North)	
			Total	Red River direct below Lake Texhoma and Arkansas River (VI-A and VI-B)	Missouri River							Headwaters above Three Forks, Montana (VI-H)			
Total	Below Three Forks, Montana (VI-C)	Platte River			Yellowstone River										
		Excluding South Platte River (VI-D)			South Platte River above Ogging Station near Paxton (VI-E)	Total	Excluding Big Horn River (VI-F)	Big Horn River (VI-G)	(VI-H)	(VII)					
(V-B)	(V-C)														
1,664,000	955,000	709,000	8,971,000	2,884,000	6,087,000	1,711,000	2,851,000	1,867,000	984,000	1,050,000	570,000	480,000	475,000	8,000	1
1,931,175	984,366	946,809	5,804,222	1,163,644	4,640,578	755,130	2,401,591	1,417,707	983,884	1,011,822	552,550	459,272	472,035	7,936	2
573	108	465	2,227	398	1,829	205	673	263	413	646	422	224	305	2	4
807	123	684	2,505	524	1,981	211	750	294	456	676	446	230	350	2	4
1,722,950	798,062	904,888	5,149,369	682,022	4,467,347	767,732	2,269,285	1,110,755	1,158,530	1,117,353	572,742	544,611	312,977	(D)	5
1,327,496	637,629	689,867	4,470,560	591,323	3,879,237	577,776	2,036,069	958,737	1,077,332	1,000,259	511,054	489,205	265,133	(D)	6
53,043	24,773	28,270	56,742	10,596	46,146	5,490	26,760	10,420	16,340	12,038	5,989	6,049	1,858	(D)	7
42,843	21,756	21,087	49,360	9,198	40,162	5,403	22,705	10,020	12,685	10,214	5,067	5,147	1,840	(D)	8
10,149	2,968	7,181	7,233	1,325	5,908	80	4,000	398	3,602	1,810	917	893	18	...	9
51	49	2	149	73	76	7	55	2	53	14	5	9	...	...	10
588,000	320,000	268,000	4,224,000	2,318,000	1,906,000	865,000	1,023,000	758,000	265,000	8,000	4,000	4,000	10,000	...	11
1,076,000	635,000	441,000	4,747,000	566,000	4,181,000	846,000	1,828,000	1,109,000	719,000	1,042,000	566,000	476,000	465,000	8,000	12
569	107	462	2,194	396	1,798	196	662	258	405	637	414	223	303	2	13
3,098,228	1,261,050	1,837,178	14,632,487	1,664,774	12,967,713	1,554,252	4,953,793	2,782,967	2,192,790	4,892,841	2,305,369	2,587,472	1,566,827	(D)	14
...	...	...	5	3	2	...	2	...	5	...	...	...	...	...	15
...	...	...	333,189	46,008	287,181	...	287,181	...	309,145	...	...	...	...	...	16
...	...	...	(1)	...	...	...	...	...	(2)	...	...	...	...	...	17
541	96	445	1,968	352	1,616	194	510	231	279	621	404	217	291	2	18
3,098,228	1,261,050	1,837,178	14,299,698	1,618,766	12,680,532	1,554,252	4,666,612	2,782,967	1,883,645	4,892,841	2,305,369	2,587,472	1,566,827	(D)	19
528	92	436	1,958	350	1,608	192	508	230	278	620	403	217	288	2	20
3,015,879	1,229,964	1,785,915	14,245,579	1,615,771	12,629,808	1,540,454	4,648,185	2,777,030	1,871,155	4,891,429	2,303,957	2,587,472	1,549,740	(D)	21
36	10	26	25	5	20	3	8	2	6	4	4	...	5	...	22
82,349	31,086	51,263	53,719	2,995	50,724	13,798	18,427	5,937	12,490	1,412	1,412	...	17,087	...	23
48	20	28	316	51	265	8	203	32	171	38	19	19	16	...	24
179,952	89,564	90,388	2,039,629	262,204	1,777,425	93,615	1,229,393	273,234	956,159	364,734	117,380	247,334	89,703	...	25
569	107	462	2,194	396	1,798	196	662	258	405	637	414	223	303	2	26
3,098,228	1,261,050	1,837,178	14,632,487	1,664,774	12,967,713	1,554,252	4,953,793	2,782,967	2,192,790	4,892,841	2,305,369	2,587,472	1,566,827	(D)	27
525	96	429	2,063	368	1,697	185	598	248	350	621	403	218	293	...	28
897,301	295,513	561,788	3,884,692	311,574	3,573,118	445,363	1,504,508	1,035,312	469,196	1,214,613	548,461	666,152	408,634	...	29
2	1	1	...	...	...	...	...	3	...	...	...	...	...	...	30
1,525	1,045	480	...	...	...	...	...	21,964	...	...	...	...	...	...	31
...	V-A-D	VI-B	...	...	...	...	...	(8)	...	...	...	...	...	...	32
566	106	460	2,174	395	1,779	195	654	256	398	629	408	221	301	2	33
2,239,402	964,492	1,274,910	10,747,795	1,353,200	9,394,595	1,108,889	3,449,285	1,725,691	1,723,594	3,678,228	1,756,908	1,921,320	1,158,193	(D)	34
565	106	459	2,169	395	1,774	195	649	256	393	629	408	221	301	2	35
2,149,704	896,818	1,252,886	10,512,503	1,265,540	9,246,963	1,089,543	3,356,087	1,717,134	1,638,953	3,648,780	1,735,951	1,912,829	1,152,553	(D)	36
67	20	47	147	27	120	8	79	4	75	30	15	15	3	...	37
22,121	7,205	14,916	68,664	4,873	63,791	7,244	25,071	1,616	23,455	25,836	19,945	5,891	5,640	...	38
19	17	2	59	11	48	6	33	2	31	9	3	6	...	...	39
67,577	60,469	7,108	166,628	82,787	83,841	12,102	68,127	6,941	61,186	3,612	1,012	2,600	...	...	40
27	10	17	139	19	120	6	78	6	72	27	15	12	9	...	41
179,952	89,564	90,388	2,039,629	262,204	1,777,425	93,615	1,229,393	273,234	956,159	364,734	117,380	247,334	89,703	...	42
1.6	1.4	1.8	2.4	2.1	2.4	1.9	1.6	1.8	1.5	3.6	3.4	3.9	4.3	(D)	43
290	63	227	1,024	157	867	113	222	118	104	408	279	129	124	1	44
28,163,093	13,759,195	14,403,898	146,357,412	3,445,745	142,911,667	73,801,983	49,786,340	17,739,369	32,046,971	18,883,064	2,425,948	16,457,116	440,280	(D)	45

Summary Table 9.—LAND IRRIGATED BY SOURCE OF WATER, BY DRAINAGE BASINS: CENSUS OF 1959

	Item (For definitions and explanations, see text)	18 States, total	North Pacific Coast (I)					
			Total	Excluding Columbia River	Columbia River			
					Total	Below Snake River (Oregon, Washington)	Above Snake River excluding Yakima River	Yakima River
			(I-A)		(I-B)	(I-C)	(I-D)	
1	Total acres irrigated.....farms reporting...	267,431	63,220	6,549	56,671	11,065	10,786	7,326
2	acres.....	31,222,967	4,860,640	174,053	4,686,587	533,052	787,799	441,139
3	Acres irrigated by sprinklers.....farms reporting...	54,957	21,993	4,419	17,574	7,880	5,545	1,879
4	acres.....	2,517,283	843,188	106,085	737,103	257,232	215,928	48,849
5	Sprinklers only.....farms reporting...	41,103	17,246	4,070	13,176	7,144	3,943	869
6	acres...	1,959,259	617,887	98,201	519,686	226,900	148,538	19,739
	LAND IRRIGATED, BY SOURCE OF WATER TO INDIVIDUAL FARMS, 1959							
7	Ground water sources on farm.....farms reporting...	107,021	10,473	1,782	8,691	3,918	1,605	441
8	acres...	13,243,912	614,080	36,260	577,820	114,817	60,887	13,344
9	Ground water sources on farm only.....farms reporting...	79,869	7,495	1,549	5,946	3,227	1,181	163
10	acres...	10,549,815	401,177	32,078	369,099	80,809	40,845	4,401
11	Surface sources on farm.....farms reporting...	38,797	14,185	3,012	11,173	4,165	2,848	480
12	acres...	5,081,250	1,045,384	84,188	961,196	205,806	235,828	30,799
13	Surface sources on farm only.....farms reporting...	29,356	11,558	2,728	8,830	3,577	2,369	245
14	acres...	4,050,182	841,022	76,662	764,360	166,977	197,243	16,540
15	Irrigation organization sources.....farms reporting...	153,704	43,154	2,108	41,046	3,850	7,084	6,890
16	acres...	12,897,805	3,201,176	53,605	3,147,571	212,429	491,084	396,996
17	Irrigation organization sources only.....farms reporting...	126,650	39,701	1,925	37,776	3,420	6,491	6,464
18	acres...	10,285,737	2,868,102	47,401	2,820,701	184,555	448,139	360,388
19	Both farm ground water sources and surface sources.....farms reporting...	4,454	1,000	164	836	410	150	28
20	acres...	999,317	126,947	7,421	119,526	44,911	17,520	1,511
21	Both irrigation organization and farm ground water or farm surface sources.....farms reporting...	27,102	3,466	183	3,283	431	595	426
22	acres...	5,337,916	623,392	10,491	612,901	55,800	84,052	58,299

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Summary Table 9.—LAND IRRIGATED BY SOURCE OF WATER, BY DRAINAGE BASINS: CENSUS OF 1959—Continued

	Item (For definitions and explanations, see text)	North Pacific Coast (I)—Continued					South Pacific Coast (II)		
		Columbia River—Continued					Total	Klamath River	Klamath River to Santa Maria River excluding Central Valley
		Snake River							
		Total	Below Weiser, Idaho	Weiser, Idaho to King Hill, Idaho	King Hill, Idaho to American Falls, Idaho	Above American Falls, Idaho			
		(I-E)	(I-F)	(I-G)	(I-H)		(II-A)	(II-B)	
1	Total acres irrigated.....farms reporting...	27,494	2,736	10,472	7,076	7,210	71,819	1,830	7,929
2	acres...	2,924,597	346,355	851,755	864,111	862,376	6,915,356	379,672	492,663
3	Acres irrigated by sprinklers.....farms reporting...	2,270	860	427	176	807	18,194	401	4,441
4	acres...	215,094	29,215	21,402	34,269	130,208	826,189	24,504	184,512
5	Sprinklers only.....farms reporting...	1,220	703	128	50	339	13,920	137	3,731
6	acres...	124,509	21,115	7,587	16,811	78,996	463,437	8,238	140,888
	LAND IRRIGATED, BY SOURCE OF WATER TO INDIVIDUAL FARMS, 1959								
7	Ground water sources on farm.....farms reporting...	2,727	316	648	894	869	39,238	285	6,367
8	acres...	388,772	12,368	38,570	175,063	162,771	3,551,783	46,725	402,560
9	Ground water sources on farm only.....farms reporting...	1,375	203	252	484	436	25,141	154	5,902
10	acres...	243,044	6,282	17,388	116,745	102,629	2,170,362	25,197	397,845
11	Surface sources on farm.....farms reporting...	3,680	1,326	1,205	385	764	5,435	494	1,204
12	acres...	488,763	178,465	162,342	50,166	97,992	850,641	120,326	49,379
13	Surface sources on farm only.....farms reporting...	2,639	1,127	735	221	556	3,442	372	883
14	acres...	383,600	149,397	122,699	35,007	76,337	589,248	85,985	33,627
15	Irrigation organization sources.....farms reporting...	23,222	1,331	9,428	6,300	6,163	42,008	1,253	864
16	cores...	2,047,062	155,522	650,843	638,884	601,813	2,512,932	212,621	40,724
17	Irrigation organization sources only.....farms reporting...	21,401	1,071	8,721	5,869	5,640	28,550	1,109	645
18	acres...	1,827,619	125,073	584,089	583,664	534,793	1,466,836	179,603	14,852
19	Both farm ground water sources and surface sources.....farms reporting...	248	74	61	64	49	1,218	48	279
20	acres...	55,584	12,973	12,646	16,257	13,708	290,609	19,120	32,327
21	Both irrigation organization and farm ground water or farm surface sources.....farms reporting...	1,831	161	703	438	529	13,468	147	220
22	acres...	414,750	52,670	114,933	112,438	134,709	2,398,301	69,807	53,812

IRRIGATION OF AGRICULTURAL LANDS

Summary Table 9.—LAND IRRIGATED BY SOURCE OF WATER, BY DRAINAGE BASINS: CENSUS OF 1959—Continued

Item (For definitions and explanations, see text)	South Pacific Coast (II)—Continued					Great Basin (III)				
	Central Valley				Santa Maria River and Basins South	Total	Northwest Great Basin and Humboldt River (III-A and III-B)	South Central Great Basin (III-C)	Bonneville Basin excluding Bear River (III-D)	Bear River (III-E)
	Total	Sacra- mento- San Joaquin Delta area and Sacramento River (II-C and II-D)	San Joaquin River (II-E)	San Joaquin Valley above San Joaquin River (II-F)						
1 Total acres irrigated.....farms reporting...	45,945	18,514	11,831	15,600	16,115	17,545	818	2,401	9,977	4,349
2 acres...	5,494,649	1,959,690	1,197,326	2,337,633	548,372	1,832,405	341,199	484,474	605,766	400,966
3 Acres irrigated by sprinklers.....farms reporting...	6,235	4,252	681	1,302	7,117	1,096	69	333	196	498
4 acres...	464,504	182,926	53,451	228,127	152,669	71,372	6,324	24,590	8,155	32,503
5 Sprinklers only.....farms reporting...	3,979	3,026	371	582	6,073	452	38	220	77	117
6 acres...	206,958	107,197	24,290	75,471	107,353	34,644	3,493	16,355	3,863	10,933
LAND IRRIGATED, BY SOURCE OF WATER TO INDIVIDUAL FARMS, 1959										
7 Ground water sources on farm.....farms reporting...	27,464	9,749	3,667	14,048	5,122	2,943	265	937	1,383	358
8 acres...	2,772,288	747,154	395,688	1,629,446	330,210	315,159	60,918	130,729	96,337	27,175
9 Ground water sources on farm only.....farms reporting...	15,186	8,160	1,478	5,548	3,899	1,681	178	768	609	126
10 acres...	1,531,331	522,888	190,346	818,097	256,029	209,941	32,417	108,852	56,391	12,281
11 Surface sources on farm.....farms reporting...	3,400	2,724	315	361	337	2,066	523	368	635	540
12 acres...	660,719	558,179	39,853	62,687	20,217	478,971	223,980	129,412	51,606	73,973
13 Surface sources on farm only.....farms reporting...	2,009	1,702	165	142	178	1,236	434	253	272	277
14 acres...	459,815	401,185	20,725	37,905	9,821	346,621	179,899	87,548	31,349	47,825
15 Irrigation organization sources.....farms reporting...	27,949	8,068	10,138	9,743	11,942	14,405	123	1,308	2,782	10,192
16 acres...	2,061,642	654,357	761,785	645,500	197,945	1,038,275	56,301	224,333	457,823	299,818
17 Irrigation organization sources only.....farms reporting...	16,021	6,716	7,928	1,377	10,775	12,833	107	1,170	8,070	3,486
18 acres...	1,131,474	460,329	508,708	162,437	140,907	882,073	39,105	190,900	397,539	254,329
19 Both farm ground water sources and surface sources.....farms reporting...	795	581	51	163	96	218	82	68	43	25
20 acres...	227,508	166,915	16,853	43,740	11,454	95,448	55,905	29,393	5,715	4,435
21 Both irrigation organization and farm ground water or farm surface sources.....farms reporting...	11,934	1,355	2,209	8,370	1,167	1,977	17	142	983	435
22 acres...	2,144,521	408,373	460,694	1,275,454	130,161	298,325	33,873	67,781	114,772	81,896

Summary Table 9.—LAND IRRIGATED BY SOURCE OF WATER, BY DRAINAGE BASINS: CENSUS OF 1959—Continued

Item (For definitions and explanations, see text)	Gulf of California (IV)							
	Total	Gila River excluding Colorado River (IV-A and IV-C)	Total	Below Lees Ferry excluding Gila River (IV-B)	Colorado River			
					Colorado River above Lees Ferry			
					Total	Excluding Green and Gunnison Rivers (IV-D)	Green River (IV-E)	Gunnison River (IV-F)
1 Total acres irrigated.....farms reporting...	19,554	4,689	14,865	4,016	10,849	4,999	3,411	2,439
2 .....acres...	3,057,707	1,007,757	2,049,950	766,164	1,283,786	462,882	573,349	247,555
3 Acres irrigated by sprinklers.....farms reporting...	466	102	364	130	234	131	66	37
4 .....acres...	20,167	4,431	15,736	5,006	10,730	7,057	2,878	795
5 Sprinklers only.....farms reporting...	196	69	127	76	51	28	19	4
6 .....acres...	7,977	3,100	4,877	2,395	2,482	1,689	678	115
LAND IRRIGATED, BY SOURCE OF WATER TO INDIVIDUAL FARMS, 1959								
7 Gr and water sources on farm.....farms reporting...	3,249	2,120	1,129	856	273	141	90	42
8 .....acres...	655,869	570,208	85,661	70,386	15,275	6,230	6,662	2,383
9 Ground water sources on farm only.....farms reporting...	2,055	1,478	577	479	98	51	40	7
10 .....acres...	453,698	407,838	45,860	40,493	5,367	2,532	2,623	212
11 Surface sources on farm.....farms reporting...	2,638	279	2,359	209	2,150	1,006	790	354
12 .....acres...	578,056	84,043	494,013	24,659	469,354	165,789	235,606	67,959
13 Surface sources on farm only.....farms reporting...	2,024	201	1,823	153	1,670	827	629	214
14 .....acres...	506,771	77,800	428,971	18,866	410,105	145,517	209,679	54,909
15 Irrigation organization sources.....farms reporting...	15,331	2,943	12,388	3,356	9,032	4,093	2,733	2,206
16 .....acres...	1,823,782	353,506	1,470,276	671,119	799,157	290,863	331,081	177,213
17 Irrigation organization sources only.....farms reporting...	13,811	2,357	11,454	2,982	8,472	3,879	2,534	2,059
18 .....acres...	1,586,692	222,157	1,364,535	629,117	735,418	270,455	300,055	164,908
19 Both farm ground water sources and surface sources.....farms reporting...	146	65	81	28	53	27	14	12
20 .....acres...	47,347	25,374	21,973	7,421	14,552	6,897	3,466	4,189
21 Both irrigation organization and farm ground water or farm surface sources.....farms reporting...	1,518	588	930	374	556	215	194	147
22 .....acres...	463,199	274,588	188,611	70,267	118,344	37,481	57,526	23,337

Summary Table 9.—LAND IRRIGATED BY SOURCE OF WATER, BY DRAINAGE BASINS: CENSUS OF 1959—Continued

	Item (For definitions and explanations, see text)	Gulf of Mexico excluding Mississippi River (V)					Mississippi River (VI)	
		Total	Excluding Rio Grande River (V-A and V-D)	Rio Grande River			Total	Excluding Missouri River
				Total	Below Fort Quitman	Above Fort Quitman		
1	Total acres irrigated.....farms reporting...	36,593	22,273	14,320	7,503	6,817	58,607	14,810
2	acres...	5,578,145	3,913,604	1,664,541	955,403	709,138	8,970,630	2,884,497
3	Acres irrigated by sprinklers.....farms reporting...	4,168	3,946	222	149	73	8,997	2,784
4	acres...	524,563	494,948	29,615	23,685	5,930	530,141	179,801
5	Sprinklers only.....farms reporting...	3,506	3,403	103	74	29	5,747	2,450
6	acres...	448,883	435,287	13,626	11,154	2,472	385,155	150,101
	LAND IRRIGATED, BY SOURCE OF WATER TO INDIVIDUAL FARMS, 1959							
7	Ground water sources on farm.....farms reporting...	22,042	18,297	3,745	1,685	2,060	29,066	10,046
8	acres...	3,884,872	3,318,188	566,684	309,245	257,439	4,221,698	2,317,737
9	Ground water sources on farm only:farms reporting...	19,290	17,450	1,840	1,178	662	24,198	9,087
10	acres...	3,494,256	3,172,894	322,362	240,753	81,609	3,819,960	2,207,730
11	Surface sources on farm.....farms reporting...	4,045	2,374	1,671	594	1,077	10,364	1,905
12	acres...	402,440	246,046	156,394	79,868	76,526	1,722,066	142,554
13	Surface sources on farm only.....farms reporting...	2,967	1,702	1,265	399	866	8,066	1,517
14	acres...	283,039	188,098	94,541	50,738	43,803	1,479,804	113,176
15	Irrigation organization sources.....farms reporting...	13,582	2,583	10,999	5,817	5,182	25,204	3,925
16	acres...	1,290,833	349,370	941,463	566,290	375,173	3,026,866	424,206
17	Irrigation organization sources only.....farms reporting...	11,315	2,147	9,168	5,352	3,816	20,420	3,147
18	acres...	990,286	301,951	688,335	485,066	203,269	2,487,807	356,877
19	Both farm ground water sources and surface sources.....farms reporting...	746	538	208	106	102	1,125	278
20	acres...	219,938	156,400	63,538	32,708	30,830	218,983	76,637
21	Both irrigation organization and farm ground water or farm surface sources.....farms reporting...	2,275	436	1,839	468	1,371	4,798	781
22	acres...	590,626	94,861	495,765	146,138	349,627	964,076	150,079

Summary Table 9.—LAND IRRIGATED BY SOURCE OF WATER, BY DRAINAGE BASINS: CENSUS OF 1959—Continued

Item (For definitions and explanations, see text)		Mississippi River (VI)—Continued										Hudson Bay (Red River of the North)
		Missouri River										
		Total	Below Three Forks, Montana excluding Platte and Yellowstone Rivers (VI-C)	Platte River		South Platte River above gaging Station near Paxton, Nebraska (VI-E)	Yellowstone River			Headwaters above Three Forks, Montana (VI-H)		
				Total	Excluding South Platte River (VI-D)		Total	Excluding Big Horn River (VI-F)	Big Horn River (VI-G)			
1	Total acres irrigated.....farms reporting...	43,797	14,321	20,886	12,946	7,940	7,134	4,296	2,838	1,456	93	
2	acres....	6,086,133	1,711,335	2,850,480	1,866,721	983,759	1,049,346	569,023	480,323	474,972	8,084	
3	Acres irrigated by sprinklers.....farms reporting...	6,213	3,158	2,711	1,949	762	179	149	30	165	43	
4	acres....	358,340	182,407	157,407	121,451	35,956	6,395	5,286	1,109	12,131	1,463	
5	Sprinklers only.....farms reporting...	3,297	1,762	1,441	1,139	302	62	57	5	32	36	
6	acres....	239,054	126,126	104,246	87,205	17,041	1,925	1,729	196	2,757	1,276	
LAND IRRIGATED, BY SOURCE OF WATER TO INDIVIDUAL FARMS, 1959												
7	Ground water sources on farm.....farms reporting...	19,020	7,945	10,878	7,709	3,169	128	94	34	69	10	
8	acres....	1,903,961	864,933	1,022,214	757,315	264,899	7,929	4,306	3,623	8,885	451	
9	Ground water sources on farm only.....farms reporting...	15,111	7,283	7,736	6,548	1,188	61	54	7	31	9	
10	acres....	1,612,230	811,354	795,493	663,877	131,616	3,230	3,038	192	2,153	421	
11	Surface sources on farm.....farms reporting...	8,459	3,400	2,469	1,871	988	1,718	1,214	504	872	64	
12	acres....	1,579,512	361,914	589,130	465,607	123,523	271,411	174,215	97,196	397,057	3,692	
13	Surface sources on farm only.....farms reporting...	6,549	2,735	1,649	1,156	493	1,432	1,011	421	733	63	
14	acres....	1,366,628	311,394	513,776	422,330	91,446	223,639	149,979	73,660	317,819	3,677	
15	Irrigation organization sources.....farms reporting...	21,279	3,866	11,142	5,021	6,121	5,601	3,206	2,395	670	20	
16	acres....	2,602,660	484,488	1,239,136	643,799	595,337	770,006	390,502	379,504	109,030	3,941	
17	Irrigation organization sources only.....farms reporting...	17,273	3,411	7,598	3,981	4,017	5,326	3,010	2,316	538	20	
18	acres....	2,150,930	423,789	915,037	500,169	414,868	723,062	364,725	358,337	89,042	3,941	
19	Both farm ground water sources and surface sources.....farms reporting...	847	436	352	215	137	37	19	18	22	1	
20	acres....	142,348	56,448	56,760	33,715	23,045	7,389	2,109	5,280	21,751	45	
21	Both irrigation organization and farm ground water or farm surface sources.....farms reporting...	4,017	456	3,151	1,046	2,105	278	197	81	132	...	
22	acres....	813,997	108,350	569,414	246,630	322,784	92,026	49,172	42,854	44,207	...	

IRRIGATION OF AGRICULTURAL LANDS

Summary Table 10 (Part 1 of 3).—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950

Item (For definitions and explanations, see text)	18 States, total	North Pacific Coast (1)					
		Total	Excluding Columbia River (1-A)	Columbia River			
				Total	Below Snake River, (Oregon, Washington)	Above Snake River excluding Yakima River	Yakima River
					(1-B)	(1-C)	(1-D)
1 Irrigation organizations, total							
2 number.....organizations 1959...	8,749	2,056	121	1,935	244	460	121
1949...	10,491	2,348	147	2,348	311	577	197
3 Area irrigated as reported by							
4 organizations.....acres 1959...	17,700,841	3,921,995	75,204	3,846,791	265,851	628,854	447,079
1949...	14,974,785	3,116,889	60,686	3,056,203	215,166	506,319	408,586
5 Farm water users served directly.....water users 1959...	383,654	91,808	5,396	86,412	7,550	19,344	14,020
6 Total water conveyed.....acre-feet 1959...	91,641,708	25,526,682	404,080	25,122,602	1,449,976	3,236,648	2,618,096
TYPE OF ORGANIZATION							
7 Mutual:							
8 Unincorporated.....organizations 1959...	4,989	1,325	87	1,268	165	336	75
1949...	6,464	1,770	109	1,661	225	443	97
9 Farm area irrigated directly.....acres 1959...	2,067,317	477,688	15,412	462,276	27,334	87,450	30,833
10 Farm water users served							
11 directly.....water users 1959...	32,360	7,524	425	7,099	977	1,649	671
12 Total water conveyed.....acre-feet 1959...	8,395,862	2,397,993	67,873	2,330,120	132,129	396,645	187,725
13 Incorporated.....organizations 1959...	2,737	507	22	485	45	57	28
1949...	2,884	499	22	477	52	52	37
14 Farm area irrigated directly.....acres 1959...	6,732,753	1,397,988	13,947	1,384,041	50,137	52,132	27,243
15 Farm water users served							
16 directly.....water users 1959...	129,375	25,277	484	24,793	1,663	1,877	1,838
17 Total water conveyed.....acre-feet 1959...	29,975,566	10,704,862	80,508	10,624,354	238,410	295,659	153,688
18 District.....organizations 1959...	558	164	11	153	30	56	13
19 1949...	483	182	12	170	30	65	19
20 Farm area irrigated directly.....acres 1959...	6,920,527	1,342,298	(D)	(D)	(D)	105,945	193,280
21 Farm water users served							
22 directly.....water users 1959...	178,619	48,018	(D)	(D)	(D)	11,179	7,738
23 Total water conveyed.....acre-feet 1959...	32,949,641	8,588,305	(D)	(D)	(D)	550,668	991,122
24 U.S. Bureau of Reclamation; projects and stor-							
25 age systems operated by Bureau.....organizations 1959...	54	9	...	9	2	1	2
1949...	37	11	...	11	2	2	2
26 Farm area irrigated directly.....acres 1959...	710,904	409,946	...	409,946	...	267,085	66,094
27 Farm water users served							
28 directly.....water users 1959...	14,748	4,250	...	4,250	...	2,491	1,045
29 Total water conveyed.....acre-feet 1959...	13,144,829	2,186,727	...	2,186,727	...	1,601,900	331,808
30 U.S. Bureau of Reclamation; operated							
31 by water users.....organizations 1959...	147	45	4	41	11	11	4
1949...	NA	NA	NA	NA	NA	NA	NA
32 Farm area irrigated directly.....acres 1959...	3,301,541	814,566	29,104	785,462	146,171	40,522	156,162
33 Farm water users served							
34 directly.....water users 1959...	62,998	23,730	3,437	20,293	2,761	1,797	5,833
35 Total water conveyed.....acre-feet 1959...	19,335,011	5,630,506	158,508	541,998	913,568	205,727	841,568
36 U. S. Bureau of Indian Affairs.....organizations 1959...	123	13	...	13	1	6	3
1949...	141	10	...	10	1	2	1
37 Farm area irrigated directly.....acres 1959...	578,635	277,266	...	277,266	(D)	(D)	129,629
38 Farm water users served							
39 directly.....water users 1959...	12,988	5,655	...	5,655	(D)	(D)	2,728
40 Total water conveyed.....acre-feet 1959...	3,279,132	1,559,544	...	1,559,544	(D)	(D)	953,753
41 Commercial.....organizations 1959...	246	3	...	3	...	2	...
1949...	401	...	...	...	...	4	...
42 Farm area irrigated directly.....acres 1959...	572,912	2,319	...	2,319	...	(D)	...
43 Farm water users served							
44 directly.....water users 1959...	11,270	668	...	668	...	(D)	...
45 Total water conveyed.....acre-feet 1959...	2,743,325	20,136	...	20,136	...	(D)	...
46 State.....organizations 1959...	7	...	1	...	...	1	...
1949...	31	7	...	7	...	7	...
47 Farm area irrigated directly.....acres 1959...	44,408	(D)	...	(D)	...	(D)	...
48 Farm water users served							
49 directly.....water users 1959...	480	(D)	...	(D)	...	(D)	...
50 Total water conveyed.....acre-feet 1959...	170,944	(D)	...	(D)	...	(D)	...
51 City.....organizations 1959...	35	4	1	3	1	1	...
1949...	50	9	5	5	1	2	1
52 Farm area irrigated directly.....acres 1959...	73,385	(D)	(D)	(D)	(D)	(D)	...
53 Farm water users served							
54 directly.....water users 1959...	3,814	(D)	(D)	(D)	(D)	(D)	...
55 Total water conveyed.....acre-feet 1959...	982,409	(D)	(D)	(D)	(D)	(D)	...

NA Not available.

D Data not shown to avoid disclosure of information for individual organizations.

Summary Table 10 (Part 1 of 3).—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Continued

Item (For definitions and explanations, see text)		North Pacific Coast (I)—Continued					South Pacific Coast (II)		
		Columbia River—Continued					Total	Klamath River	Klamath River to Santa Maria River excluding Central Valley
		Snake River							
		Total	Below Weiser, Idaho	Weiser, Idaho to King Hill, Idaho	King Hill, Idaho to American Falls, Idaho	Above American Falls, Idaho			
			(I-E)	(I-F)	(I-G)	(I-H)		(II-A)	(II-B)
1	Irrigation organizations, total number.....organizations 1959...	1,110	375	259	111	371	1,091	62	39
2	.....organizations 1949...	1,305	442	296	108	466	1,501	60	54
3	Area irrigated as reported by organizations.....acres 1959...	2,505,007	233,614	743,724	748,717	778,952	3,725,866	285,200	30,646
4	.....acres 1949...	2,126,132	220,973	635,857	618,502	650,800	2,735,897	205,119	19,869
5	Farm water users served directly....water users 1959...	45,498	3,819	19,389	10,429	11,881	110,134	2,993	1,332
6	Total water conveyed.....acre-feet 1959...	17,882,638	1,046,969	4,983,120	4,995,730	6,958,117	17,479,417	1,225,526	243,389
TYPE OF ORGANIZATION									
7	Mutual:								
8	Unincorporated.....organizations 1959...	692	307	128	72	185	396	25	15
9	.....organizations 1949...	896	373	168	75	280	723	34	26
10	Farm area irrigated directly.....acres 1959...	316,659	146,762	48,376	31,679	89,842	80,473	18,331	1,263
11	Farm water users served directly.....water users 1959...	3,802	1,661	679	399	1,063	2,150	132	75
12	Total water conveyed.....acre-feet 1959...	1,613,621	667,453	256,819	135,392	553,957	368,075	62,528	9,853
13	Incorporated.....organizations 1959...	355	58	97	31	171	428	8	11
14	.....organizations 1949...	337	56	90	25	167	550	7	9
15	Farm area irrigated directly.....acres 1959...	1,254,529	68,160	173,100	543,133	470,136	1,032,830	17,832	9,595
16	Farm water users served directly.....water users 1959...	19,415	852	3,982	7,883	6,698	22,039	232	404
17	Total water conveyed.....acre-feet 1959...	9,936,597	267,303	1,278,536	3,578,428	4,856,204	2,831,577	57,201	65,114
18	District.....organizations 1959...	54	9	32	6	11	184	24	2
19	.....organizations 1949...	57	9	31	7	12	116	15	5
20	Farm area irrigated directly.....acres 1959...	810,498	16,632	510,248	105,658	177,960	2,401,046	(D)	(D)
21	Farm water users served directly.....water users 1959...	19,807	656	14,678	1,500	2,973	77,564	(D)	(D)
22	Total water conveyed.....acre-feet 1959...	5,789,433	93,813	3,430,365	1,045,609	1,276,670	10,051,435	(D)	(D)
23	U. S. Bureau of Reclamation; projects and storage systems operated by bureau.....organizations 1959...	4	...	1	2	1	12	2	1
24	.....organizations 1949...	5	...	1	1	2	3	1	1
25	Farm area irrigated directly.....acres 1959...	76,767	...	(D)	68,247	(D)	28,670	(D)	(D)
26	Farm water users served directly.....water users 1959...	714	...	(D)	647	(D)	347	(D)	(D)
27	Total water conveyed.....acre-feet 1959...	253,019	...	(D)	236,301	(D)	2,600,581	(D)	(D)
28	U. S. Bureau of Reclamation; operated by water users.....organizations 1959...	15	4	8	3	...	37	13	...
29	.....organizations 1949...	NA	NA	NA	NA	NA	NA	NA	NA
30	Farm area irrigated directly.....acres 1959...	442,607	1,435	318,030	123,142	...	463,457	178,196	...
31	Farm water users served directly.....water users 1959...	9,902	491	7,094	2,317	...	7,474	2,119	...
32	Total water conveyed.....acre-feet 1959...	3,511,135	10,750	2,377,486	1,122,899	...	2,111,335	1,271,892	...
33	U. S. Bureau of Indian Affairs.....organizations 1959...	3	...	1	...	2	5	2	...
34	.....organizations 1949...	6	1	1	...	4	10	3	...
35	Farm area irrigated directly.....acres 1959...	43,774	...	(D)	...	(D)	3,284	2,104	...
36	Farm water users served directly.....water users 1959...	1,100	...	(D)	...	(D)	283	182	...
37	Total water conveyed.....acre-feet 1959...	266,500	...	(D)	...	(D)	13,923	9,750	...
38	Commercial.....organizations 1959...	1	1	...	...	...	51	1	7
39	.....organizations 1949...	3	1	3	...	...	78	...	9
40	Farm area irrigated directly.....acres 1959...	(D)	(D)	...	...	...	158,321	(D)	(D)
41	Farm water users served directly.....water users 1959...	(D)	(D)	...	...	...	5,765	(D)	(D)
42	Total water conveyed.....acre-feet 1959...	(D)	(D)	...	...	...	951,672	(D)	(D)
43	State.....organizations 1959...	...	...	...	...	...	...	...	...
44	.....organizations 1949...	...	...	...	...	...	...	...	...
45	Farm area irrigated directly.....acres 1959...	...	...	...	...	...	...	...	...
46	Farm water users served directly.....water users 1959...	...	...	...	...	...	...	...	...
47	Total water conveyed.....acre-feet 1959...	...	...	...	...	...	...	...	...
48	City.....organizations 1959...	1	...	...	1	15	...	...	3
49	.....organizations 1949...	1	1	...	...	21	...	...	4
50	Farm area irrigated directly.....acres 1959...	(D)	(D)	...	...	(D)	21,242	...	1,177
51	Farm water users served directly.....water users 1959...	(D)	...	...	...	(D)	1,986	...	102
	Total water conveyed.....acre-feet 1959...	(D)	...	...	...	(D)	662,154	...	9,198

NA Not available.

D Data not shown to avoid disclosure of information for individual organizations.

Summary Table 10 (Part 1 of 3).—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Continued

Item (For definitions and explanations, see text)	South Pacific Coast (II)—Continued					Great Basin (III)				
	Central Valley				Santa Maria River and Basins south	Total	Northwest Great Basin and Humboldt River (III-A and III-B)	South Central Great Basin (III-C)	Bonneville Basin excluding Bear River (III-D)	Bear River (III-E)
	Total	Sacramento San Joaquin Delta area and Sacramento River (II-C and II-D)	San Joaquin River (II-E)	San Joaquin Valley above San Joaquin River (II-F)						
1 Irrigation organizations, total number.....organizations 1959...	361	143	60	166	629	1,166	42	102	678	346
2 .....organizations 1949...	437	149	55	245	951	1,265	68	125	735	339
3 Area irrigated as reported by organizations.....acres 1959...	3,105,342	802,095	910,623	1,392,624	304,678	1,349,873	82,436	260,658	610,772	396,007
4 .....acres 1949...	2,161,741	570,864	884,934	745,943	349,168	1,329,810	109,180	250,885	638,007	331,738
5 Farm water users served directly.....water users 1959...	78,201	16,610	29,150	32,441	27,608	42,586	363	2,626	29,320	10,277
6 Total water conveyed.....acre-feet 1959...	14,004,581	6,728,211	6,186,765	3,774,617	2,074,590	5,915,373	215,512	1,839,305	2,417,361	1,449,485
TYPE OF ORGANIZATION										
7 Mutual:										
8 Unincorporated.....organizations 1959...	97	36	8	53	259	478	37	49	209	183
9 .....organizations 1949...	196	59	20	117	467	582	57	65	285	175
10 Farm area irrigated directly.....acres 1959...	43,737	30,196	1,190	12,351	17,142	214,731	44,253	49,187	44,329	76,962
11 Farm water users served directly.....water users 1959...	526	212	20	294	1,417	3,122	162	268	1,586	1,106
12 Total water conveyed.....acre-feet 1959...	232,166	134,861	10,235	87,070	63,528	648,102	98,601	163,312	156,458	229,731
13 Incorporated.....organizations 1959...	116	33	10	73	293	654	2	39	455	159
14 .....organizations 1949...	132	27	11	94	402	644	5	39	440	161
15 Farm area irrigated directly.....acres 1959...	810,492	174,766	99,559	536,167	194,911	912,653	(D)	(D)	544,690	279,363
16 Farm water users served directly.....water users 1959...	5,769	2,317	526	2,926	15,634	34,255	(D)	(D)	25,179	8,198
17 Total water conveyed.....acre-feet 1959...	2,074,137	825,805	420,346	827,986	635,125	3,990,910	(D)	(D)	2,117,114	962,954
18 District.....organizations 1959...	118	56	36	31	40	17	1	6	7	3
19 .....organizations 1949...	73	44	17	20	23	13	2	6	3	2
20 Farm area irrigated directly.....acres 1959...	2,111,775	537,365	798,853	775,557	52,374	147,214	(D)	(D)	16,667	7,610
21 Farm water users served directly.....water users 1959...	67,758	10,985	27,991	28,782	7,022	3,218	(D)	(D)	1,824	209
22 Total water conveyed.....acre-feet 1959...	8,453,656	3,803,922	3,372,097	1,795,317	615,556	1,101,253	(D)	(D)	67,853	26,800
23 U. S. Bureau of Reclamation; projects and storage systems operated by bureau.....organizations 1959...	8	7	2	2	1	1	...	...	1	...
24 .....organizations 1949...	2	3	2	1	...	1	...	...	1	...
25 Farm area irrigated directly.....acres 1959...	4,058	...	1,773	2,285	...	1,030	...	...	1,030	...
26 Farm water users served directly.....water users 1959...	7	...	2	5	...	47	...	...	47	...
27 Total water conveyed.....acre-feet 1959...	2,452,896	1,429,780	2,305,080	885,368	8,516	29,414	...	...	29,414	...
28 U. S. Bureau of Reclamation; operated by water users.....organizations 1959...	18	4	3	11	6	14	1	4	8	1
29 .....organizations 1949...	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
30 Farm area irrigated directly.....acres 1959...	280,808	24,641	71,444	184,723	4,453	147,628	(D)	77,895	33,817	(D)
31 Farm water users served directly.....water users 1959...	4,892	1,032	795	3,065	463	2,874	(D)	952	1,548	(D)
32 Total water conveyed.....acre-feet 1959...	814,518	155,961	205,711	452,846	24,925	759,583	(D)	404,043	236,820	(D)
33 U. S. Bureau of Indian Affairs.....organizations 1959...	1	1	...	...	2	9	2	6	1	...
34 .....organizations 1949...	2	1	...	1	5	16	4	12	...	...
35 Farm area irrigated directly.....acres 1959...	800	800	...	...	380	8,305	(D)	4,211	(D)	...
36 Farm water users served directly.....water users 1959...	10	10	...	...	91	311	(D)	232	(D)	...
37 Total water conveyed.....acre-feet 1959...	2,050	2,050	...	...	2,123	42,669	(D)	34,345	(D)	...
38 Commercial.....organizations 1959...	21	10	4	7	22	2	...	1	1	1
39 .....organizations 1949...	29	14	5	10	40	3	...	2	1	1
40 Farm area irrigated directly.....acres 1959...	134,480	58,968	9,248	66,264	19,806	(D)	...	(D)	(D)	(D)
41 Farm water users served directly.....water users 1959...	4,131	3,086	611	434	1,560	(D)	...	(D)	(D)	(D)
42 Total water conveyed.....acre-feet 1959...	789,676	531,793	79,007	178,676	96,786	(D)	...	(D)	(D)	(D)
43 State.....organizations 1959...	...	...	...	...	...	...	...	...	...	...
44 .....organizations 1949...	...	...	...	...	...	...	...	...	...	...
45 Farm area irrigated directly.....acres 1959...	...	...	...	...	...	...	...	...	...	...
46 Farm water users served directly.....water users 1959...	...	...	...	...	...	...	...	...	...	...
47 Total water conveyed.....acre-feet 1959...	...	...	...	...	...	...	...	...	...	...
48 City.....organizations 1959...	...	...	...	...	12	5	...	1	4	...
49 .....organizations 1949...	3	1	...	2	14	6	...	1	5	...
50 Farm area irrigated directly.....acres 1959...	...	...	...	...	20,065	31,008	...	(D)	2,250	...
51 Farm water users served directly.....water users 1959...	...	...	...	...	1,884	792	...	(D)	638	...
52 Total water conveyed.....acre-feet 1959...	...	...	...	...	652,956	465,445	...	(D)	41,594	...

NA Not available.

D Data not shown to avoid disclosure of information for individual organizations.

Summary Table 10 (Part 1 of 3).—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Continued

Item (For definitions and explanations, see text)	Total	Gulf of California (IV)						
		Gila River excluding Colorado River (IV-A and IV-C)	Total	Colorado River				
				Below Lee's Ferry excluding Gila River (IV-B)	Colorado River above Lee's Ferry			
					Total	Excluding Green and Gunnison Rivers (IV-D)	Green River (IV-E)	Gunnison River (IV-F)
1 Irrigation organizations, total	1,402	105	1,297	110	1,187	561	268	359
2 number.....organizations 1959...	1,545	124	1,425	134	1,291	597	249	445
3 Area irrigated as reported by								
4 organizations.....acres 1959...	2,433,197	464,334	1,968,863	793,631	1,175,232	461,911	476,420	236,901
5 directly.....water users 1959...	2,117,187	466,376	1,650,811	622,846	1,027,965	436,040	370,183	221,745
6 Farm water users served directly.....water users 1959...	41,499	9,326	32,173	10,687	21,486	10,869	6,004	4,613
7 Total water conveyed.....acre-feet 1959...	22,545,054	2,638,375	19,906,679	14,307,506	5,599,173	2,585,001	1,827,770	1,187,694
TYPE OF ORGANIZATION								
8 Mutual:								
9 Unincorporated.....organizations 1959...	949	27	892	23	869	400	186	283
10 Farm water users served	1,065	75	991	35	956	432	172	352
11 Farm area irrigated directly.....acres 1959...	400,837	25,699	375,138	7,726	367,412	166,130	119,102	82,180
12 Farm water users served	5,394	806	4,588	240	4,348	2,561	756	1,031
13 directly.....water users 1959...	1,796,740	132,954	1,663,786	17,732	1,646,054	760,568	489,774	395,712
14 Total water conveyed.....acre-feet 1959...	334	21	313	54	259	110	75	75
15 Incorporated.....organizations 1959...	356	27	331	62	269	108	69	92
16 Farm area irrigated directly.....acres 1949...	978,695	252,176	726,519	82,734	643,785	245,139	(D)	(D)
17 Farm water users served	19,778	4,848	14,930	2,239	12,691	4,850	(D)	(D)
18 directly.....water users 1959...	4,935,301	1,492,126	3,443,175	495,125	2,948,050	1,284,319	(D)	(D)
19 Total water conveyed.....acre-feet 1959...	32	7	25	9	16	9	6	1
20 District.....organizations 1959...	28	9	19	7	12	5	6	1
21 Farm area irrigated directly.....acres 1949...	834,107	96,426	737,681	656,958	80,723	29,635	(D)	(D)
22 Farm water users served	10,062	740	9,322	7,191	2,131	1,860	(D)	(D)
23 directly.....water users 1959...	7,525,743	385,417	7,140,326	6,788,350	351,976	155,462	(D)	(D)
24 Total water conveyed.....acre-feet 1959...								
25 U. S. Bureau of Reclamation; projects and stor-	7	...	7	3	4	4	...	...
26 age systems operated by bureau.....organizations 1959...	7	...	7	4	3	3	...	...
27 Farm area irrigated directly.....acres 1949...	13,312	...	13,312	13,312	...	...	...	...
28 Farm water users served	248	...	248	...	...	...	...	...
29 directly.....water users 1959...	7,003,633	...	7,003,633	6,735,053	268,580	268,580	...	...
30 Total water conveyed.....acre-feet 1959...								
31 U. S. Bureau of Reclamation; operated	16	1	15	6	9	2	4	3
32 by water users.....organizations 1949...	NA	NA	NA	NA	NA	NA	NA	NA
33 Farm area irrigated directly.....acres 1959...	930,692	(D)	(D)	(D)	121,733	(D)	12,968	81,095
34 Farm water users served	13,607	(D)	(D)	(D)	2,772	(D)	84	1,868
35 directly.....water users 1959...	8,602,192	(D)	(D)	(D)	1,022,305	(D)	165,934	491,594
36 Total water conveyed.....acre-feet 1959...								
37 U. S. Bureau of Indian Affairs.....organizations 1959...	74	17	57	18	39	38	1	...
38 Farm water users served	79	10	70	22	48	47	1	...
39 Farm area irrigated directly.....acres 1949...	204,125	88,278	115,847	32,535	83,312	21,007	(D)	...
40 Farm water users served	5,827	2,921	2,906	590	2,316	1,598	(D)	...
41 directly.....water users 1959...	1,267,237	612,979	654,278	269,765	384,513	116,072	(D)	...
42 Total water conveyed.....acre-feet 1959...								
43 Commercial.....organizations 1959...	2	...	2	...	...	...	...	...
44 Farm water users served	6	1	5	3	3	2	1	...
45 Farm area irrigated directly.....acres 1949...	(D)	(D)	(D)	(D)	...	...	...	...
46 Farm water users served	(D)	...	(D)	(D)	...	...	...	...
47 directly.....water users 1959...	(D)	...	(D)	(D)	...	...	...	...
48 Total water conveyed.....acre-feet 1959...	(D)	...	(D)	(D)	...	...	...	...
49 State.....organizations 1959...	1	1	...	...	...	...	...	...
50 Farm area irrigated directly.....acres 1949...	(D)	(D)	...	...	...	...	...	...
51 Farm water users served	(D)	(D)	...	...	...	...	...	...
52 directly.....water users 1959...	(D)	(D)	...	...	...	...	...	...
53 Total water conveyed.....acre-feet 1959...	(D)	(D)	...	...	...	...	...	...
54 City.....organizations 1959...	3	2	1	1	...	...	...	...
55 Farm water users served	4	2	2	2	...	...	...	...
56 Farm area irrigated directly.....acres 1949...	1,850	(D)	(D)	(D)	...	...	...	...
57 Farm water users served	30	(D)	(D)	(D)	...	...	...	...
58 directly.....water users 1959...	15,554	(D)	(D)	(D)	...	...	...	...
59 Total water conveyed.....acre-feet 1959...								

NA Not available.

D Data not shown to avoid disclosure of information for individual organizations.

IRRIGATION OF AGRICULTURAL LANDS

Summary Table 10 (Part 1 of 3).—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Continued

Item (For definitions and explanations, see text)	Gulf of Mexico excluding Mississippi River (V)					Mississippi River (VI)	
	Total	Mermentau River excluding Rio Grande (V-A and V-D)	Rio Grande River			Total	Arkansas River (VI-A and VI-B)
			Total	Below Fort Quitman	Above Fort Quitman, Texas (V-C)		
1 Irrigation organizations, total							
2 number.....organizations 1959...	826	254	573	108	465	2,227	398
1949...	1,195	388	807	123	684	2,505	524
3 Area irrigated as reported by							
4 organizations.....acres 1959...	1,791,975	464,479	1,327,496	637,629	689,867	4,470,560	591,323
1949...	2,074,634	622,986	1,451,648	639,070	812,578	3,592,738	532,783
5 Farm water users served directly.....water users 1959...	48,238	5,395	42,843	21,756	21,087	49,360	9,178
6 Total water conveyed.....acre-feet 1959...	5,151,010	1,873,875	3,278,180	1,350,614	1,927,566	16,672,116	1,926,978
TYPE OF ORGANIZATION							
7 Mutual:							
8 Unincorporated.....organizations 1959...	446	58	388	49	339	1,367	275
1949...	654	75	579	61	518	1,671	387
9 Farm area irrigated directly.....acres 1959...	161,946	24,490	137,456	10,232	127,224	731,467	69,266
10 Farm water users served							
11 directly.....water users 1959...	7,478	307	7,171	1,005	6,166	6,689	1,767
12 Total water conveyed.....acre-feet 1959...	431,562	113,249	318,313	29,729	288,584	2,722,669	223,144
13 Incorporated.....organizations 1959...	127	3	124	10	114	697	117
1949...	161	12	149	14	135	687	130
14 Farm area irrigated directly.....acres 1959...	356,571	24,058	332,513	12,769	319,744	2,054,016	426,994
15 Farm water users served							
16 directly.....water users 1959...	4,043	110	3,933	217	3,716	23,983	6,334
17 Total water conveyed.....acre-feet 1959...	722,650	99,420	623,230	34,977	588,253	7,597,527	1,364,387
18 District.....organizations 1959...	59	8	52	44	8	104	4
19 Farm area irrigated directly.....acres 1959...	54	5	49	40	9	90	3
20 Farm water users served							
21 directly.....water users 1959...	703,959	48,452	655,507	603,956	51,551	1,484,703	92,823
22 Total water conveyed.....acre-feet 1959...	23,479	1,258	22,221	20,354	1,867	16,252	1,092
23 U. S. Bureau of Reclamation; projects and storage systems operated by bureau.....organizations 1959...	1,448,707	132,277	1,317,475	1,249,495	67,980	5,065,602	193,107
24 1949...	5	...	5	1	4	22	1
25 Farm area irrigated directly.....acres 1959...	191,348	...	191,348	...	191,348	66,598	...
26 Farm water users served							
27 directly.....water users 1959...	9,338	...	9,338	...	9,338	518	...
28 Total water conveyed.....acre-feet 1959...	982,749	...	982,749	...	982,749	678,974	55,294
29 U. S. Bureau of Reclamation; operated by water users.....organizations 1959...	2	...	2	2	...	32	3
30 1949...	NA	NA	NA	NA	NA	NA	NA
31 Farm area irrigated directly.....acres 1959...	132,306	...	(D)	(D)	...	917,529	79,352
32 Farm water users served							
33 directly.....water users 1959...	7,019	...	(D)	(D)	...	8,294	843
34 Total water conveyed.....acre-feet 1959...	321,040	...	(D)	(D)	...	3,612,819	167,745
35 U. S. Bureau of Indian Affairs.....organizations 1959...	1	...	1	1	...	21	...
36 1949...	18	...	18	1	17	8	...
37 Farm area irrigated directly.....acres 1959...	386	...	386	386	...	85,269	...
38 Farm water users served							
39 directly.....water users 1959...	61	...	61	61	...	851	...
40 Total water conveyed.....acre-feet 1959...	1,962	...	1,962	1,962	...	393,777	...
41 Commercial.....organizations 1959...	184	181	3	3	...	6	1
1949...	299	294	5	4	1	9	1
42 Farm area irrigated directly.....acres 1959...	(D)	(D)	10,286	10,286	...	(D)	(D)
43 Farm water users served							
44 directly.....water users 1959...	(D)	(D)	119	119	...	(D)	(D)
45 Total water conveyed.....acre-feet 1959...	(D)	(D)	34,451	34,451	...	(D)	(D)
46 State.....organizations 1959...	1	1	...	...	...	4	...
1949...	...	...	...	...	...	23	1
47 Farm area irrigated directly.....acres 1959...	(D)	(D)	...	...	...	(D)	...
48 Farm water users served							
49 directly.....water users 1959...	(D)	(D)	...	...	...	(D)	...
50 Total water conveyed.....acre-feet 1959...	(D)	(D)	...	...	...	(D)	...
51 City.....organizations 1959...	3	3	...	...	...	6	...
1949...	5	3	3	1	2	5	...
52 Farm area irrigated directly.....acres 1959...	3,768	3,768	...	...	...	(D)	...
53 Farm water users served							
54 directly.....water users 1959...	11	11	...	...	...	(D)	...
55 Total water conveyed.....acre-feet 1959...	95,111	95,111	...	...	...	(D)	...

NA Not available.

D Data not shown to avoid disclosure of information for individual organizations.

Summary Table 10 (Part 1 of 3).— NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Continued

Item (For definitions and explanations, see text)		Mississippi River (VI)—Continued									Hudson Bay (Red River of the North) (VII)
		Missouri River									
		Total	Below Three Forks, Montana, excluding Platte and Yellowstone River (VI-C)	Platte River		Yellowstone River			Headwaters above Three Forks, Montana (VI-H)		
				Total	Excluding South Platte River (VI-D)	South Platte River above Gaging Station near Forton (VI-E)	Total	Excluding Big Horn River (VI-F)		Big Horn River (VI-G)	
1	Irrigation organizations, total number.....organizations 1959...	1,829	205	673	263	413	646	422	224	305	2
2	1949...	1,981	211	750	294	456	676	446	230	350	2
3	Area irrigated as reported by organizations.....acres 1959...	3,879,277	577,776	2,036,069	958,737	1,077,332	1,000,259	511,054	489,205	265,133	(D)
4	1949...	3,059,955	434,802	1,586,421	761,602	824,849	831,186	429,720	401,466	207,516	7,630
5	Farm water users served directly.....water users 1959...	40,162	5,403	22,705	10,020	12,685	10,214	5,067	5,147	1,840	29
6	Total water conveyed.....acre-feet 1959...	14,745,138	1,647,867	6,183,186	3,056,201	3,148,949	5,297,555	2,422,749	2,834,806	1,656,530	(D)
TYPE OF ORGANIZATION											
7	Mutual:										
8	Unincorporated.....organizations 1959...	1,092	103	287	184	103	442	288	154	260	1
9	1949...	1,284	142	343	217	126	488	321	167	313	...
10	Farm area irrigated directly.....acres 1959...	662,201	45,943	298,200	198,398	99,802	209,884	148,195	61,689	148,174	(D)
11	Farm water users served directly.....water users 1959...	4,922	363	1,716	813	903	1,831	1,279	552	1,012	3
12	Total water conveyed.....acre-feet 1959...	2,499,525	100,548	702,642	362,818	339,824	826,580	582,363	244,217	869,755	(D)
13	Incorporated.....organizations 1959...	580	52	326	34	294	157	118	39	45	...
14	1949...	557	31	346	32	314	147	104	43	33	...
15	Farm area irrigated directly.....acres 1959...	1,627,022	146,396	995,160	112,764	882,396	368,507	231,021	137,486	116,959	...
16	Farm water users served directly.....water users 1959...	17,649	1,431	11,374	1,153	10,221	4,016	2,601	1,415	828	...
17	Total water conveyed.....acre-feet 1959...	6,233,140	555,085	2,771,298	327,646	2,463,475	2,120,022	1,284,996	835,026	786,775	...
18	District.....organizations 1959...	100	20	46	38	8	34	14	20	...	1
19	1949...	87	14	47	40	7	27	11	16	...	1
20	Farm area irrigated directly.....acres 1959...	1,391,880	326,738	743,519	621,797	121,722	321,623	130,197	191,426	...	(D)
21	Farm water users served directly.....water users 1959...	15,160	2,931	8,620	7,584	1,036	3,609	1,174	2,435	...	26
22	Total water conveyed.....acre-feet 1959...	4,872,495	760,676	2,346,293	2,105,236	241,057	1,765,526	549,134	1,216,392	...	(D)
23	U. S. Bureau of Reclamation; projects and storage systems operated by bureau.....organizations 1959...	21	14	4	3	1	3	...	3	...	...
24	1949...	10	5	3	2	1	2	...	2	...	...
25	Farm area irrigated directly.....acres 1959...	66,598	26,058	...	...	...	40,540	...	40,540	...	...
26	Farm water users served directly.....water users 1959...	518	314	...	...	...	204	...	204	...	...
27	Total water conveyed.....acre-feet 1959...	623,680	145,011	268,580	...	268,580	210,089	...	210,089	...	...
28	U. S. Bureau of Reclamation; operated by water users.....organizations 1959...	29	14	7	6	1	8	7	1	...	...
29	1949...	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
30	Farm area irrigated directly.....acres 1959...	733,540	290,745	243,431	(D)	(D)	199,364	(D)	(D)	(D)	...
31	Farm water users served directly.....water users 1959...	7,451	2,620	2,976	(D)	(D)	1,855	(D)	(D)	(D)	...
32	Total water conveyed.....acre-feet 1959...	3,445,074	678,912	1,539,949	(D)	(D)	1,226,213	(D)	(D)	(D)	...
33	U. S. Bureau of Indian Affairs.....organizations 1959...	21	11	...	...	...	10	2	8	...	...
34	1949...	8	5	...	...	...	4	2	2	...	...
35	Farm area irrigated directly.....acres 1959...	85,269	25,564	...	...	...	59,705	(D)	58,064	...	...
36	Farm water users served directly.....water users 1959...	851	297	...	...	...	554	(D)	541	...	...
37	Total water conveyed.....acre-feet 1959...	393,777	58,439	...	...	...	335,338	(D)	329,082	...	...
38	Commercial.....organizations 1959...	5	1	4	2	3	...	...	...	...	...
39	1949...	(D)	2	5	2	3	2	2	...	...	...
40	Farm area irrigated directly.....acres 1959...	(D)	(D)	4,075	(D)	500	...	...	...	...	...
41	Farm water users served directly.....water users 1959...	(D)	(D)	28	(D)	12	...	...	...	...	...
42	Total water conveyed.....acre-feet 1959...	(D)	(D)	14,918	(D)	6,992	...	...	...	...	...
43	State.....organizations 1959...	4	3	1	1	...	...	...	...	...	...
44	1949...	22	12	...	(D)	6	6	...	6	...	1
45	Farm area irrigated directly.....acres 1959...	(D)	(D)	(D)	(D)	...	...	...	...	...	...
46	Farm water users served directly.....water users 1959...	(D)	(D)	(D)	(D)	...	...	...	...	...	...
47	Total water conveyed.....acre-feet 1959...	(D)	(D)	(D)	(D)	...	...	...	...	...	...
48	City.....organizations 1959...	6	1	5	1	4	...	...	...	...	...
49	1949...	5	...	6	1	5	...	...	...	...	...
50	Farm area irrigated directly.....acres 1959...	(D)	(D)	(D)	(D)	12,912	...	...	...	...	...
51	Farm water users served directly.....water users 1959...	(D)	(D)	(D)	(D)	513	...	...	...	...	...
	Total water conveyed.....acre-feet 1959...	(D)	(D)	(D)	(D)	29,021	...	...	...	...	...

NA Not available.

D Data not shown to avoid disclosure of information for individual organizations.

IRRIGATION OF AGRICULTURAL LANDS

Summary Table 10 (Part 2 of 3).—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950

		North Pacific Coast (I)						
Item (For definitions and explanations, see text)		18 States, total	Total	Excluding Columbia River	Columbia River			
					Total	Below Snake River	Above Snake River excluding Yakima River	Yakima River
TYPE OF SERVICE, 1959								
1	All water directly from surface and							
2	ground water sources.....organizations...	7,543	1,820	120	1,700	235	427	111
3	Total water conveyed.....acre-feet...	70,168,762	21,122,888	388,580	21,425,743	1,423,056	3,042,373	2,598,603
4	Water delivered.....acre-feet...	56,765,261	17,214,689	305,609	16,909,080	1,075,327	2,085,651	2,071,653
5	To farm and residential							
6	users only.....organizations...	7,228	1,754	119	1,635	230	420	108
7	acre-feet...	30,939,577	10,169,056	279,102	9,889,954	784,650	1,985,469	1,834,111
8	To farm and residential users and other							
9	irrigation organizations.....organizations...	259	58	1	57	5	5	2
10	Water to farm and residential							
11	users.....acre-feet...	10,388,158	4,657,524	16,520	4,641,004	269,605	49,891	214,584
12	Water to other irrigation							
13	organizations.....acre-feet...	5,779,328	2,103,990	9,987	2,094,003	21,072	15,575	16,658
14	To other irrigation organizations							
15	only.....organizations...	50	8	...	8	...	2	1
16	acre-feet...	9,658,198	233,937	...	233,937	...	34,716	6,300
17	Part of water from other							
18	organizations.....organizations...	452	92	1	91	4	14	1
19	Total water conveyed.....acre-feet...	15,896,595	2,633,428	15,500	2,617,828	9,297	164,387	2,535
20	From surface and ground water							
21	sources.....acre-feet...	2,828,497	1,060,832	5,513	1,031,038	5,848	133,211	1-3,465
22	From other irrigation							
23	organizations.....acre-feet...	13,068,098	1,676,783	9,987	1,586,790	3,409	31,176	6,000
24	Water delivered.....acre-feet...	13,148,549	2,297,449	13,000	2,284,449	8,648	134,279	1,935
25	To farm and residential							
26	users only.....organizations...	371	81	1	80	4	11	1
27	acre-feet...	5,856,526	1,884,162	13,000	1,871,162	8,648	92,209	1,935
28	To farm and residential users and other							
29	irrigation organizations.....organizations...	76	12	...	12	...	3	...
30	Water to farm and residential							
31	users.....acre-feet...	4,670,895	315,200	...	315,200	...	31,547	...
32	Water to other irrigation							
33	organizations.....acre-feet...	2,565,560	98,087	...	98,087	...	10,523	...
34	To other irrigation organizations							
35	only.....organizations...	4	...	...	...	...	...	...
36	acre-feet...	55,568	...	...	...	...	...	...
37	All of water from other							
38	organizations.....organizations...	674	129	...	129	3	17	7
39	Total water conveyed.....acre-feet...	5,576,351	1,070,466	...	1,070,466	17,663	29,888	16,958
40	Water delivered.....acre-feet...	4,809,757	964,469	...	964,469	15,709	29,594	9,250
41	To farm and residential							
42	users only.....organizations...	617	115	...	115	3	16	7
43	acre-feet...	3,791,038	594,571	...	594,571	15,709	28,839	9,250
44	To farm and residential users and other							
45	irrigation organizations.....organizations...	44	12	...	12	...	1	...
46	Water to farm residential							
47	users.....acre-feet...	432,924	138,669	...	138,669	...	505	...
48	Water to other irrigation							
49	organizations.....acre-feet...	402,575	229,780	...	229,780	...	250	...
50	To other irrigation organizations							
51	only.....organizations...	13	2	...	2	...	...	...
52	acre-feet...	183,220	1,449	...	1,449	...	...	...
53	No water conveyed.....organizations...	80	15	...	15	2	2	2
WATER FROM OTHER SOURCES								
54	Organizations reporting no water from							
55	other sources used on land served							
56	by the organization.....organizations...	7,301	1,756	117	1,639	214	365	98
57	acre-feet...	16,487,956	3,547,466	66,627	3,480,804	164,457	697,901	412,281
58	Water delivered to farms.....acre-feet...	13,903,569	3,237,722	67,904	3,169,818	197,253	587,982	378,946
59	acre-feet per acre...	44,600,549	13,184,307	206,478	12,977,829	665,939	2,016,930	1,761,787
60		3.2	4.1	3.0	4.1	4.2	3.4	4.6
61	Organizations reporting water from other							
62	sources used on land served by the							
63	organization.....organizations...	1,284	274	4	270	28	92	20
64	acre served.....	4,677,598	728,811	7,293	721,518	111,384	56,029	80,590
65	acre irrigated.....	3,797,272	678,696	7,255	671,441	108,598	45,300	77,224
66	Water delivered to farms.....acre-feet...	9,870,930	2,833,190	31,397	2,801,793	395,608	144,824	328,913
67	acre-feet per acre...	2.6	4.2	4.3	4.2	3.6	3.2	4.2

¹Water was transferred to the basin and released to natural stream channels in excess of the quantity of surface water withdrawn by irrigation organizations. The net effect was to increase the available surface water supply to the basin or State.

Summary Table 10 (Part 2 of 3).—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Continued

Item (For definitions and explanations, see text)	North Pacific Coast (I)—Continued					South Pacific Coast (II)		
	Columbia River—Continued					Total	South Pacific Coast	Klamath River to Santa Maria River excluding Central Valley
	Snake River							
	Total	Below Weiser, Idaho	Weiser, Idaho to King Hill, Idaho	King Hill, Idaho to American Falls, Idaho	Above American Falls			
		(I-E)	(I-F)	(I-G)	(I-H)		(II-A)	(II-B)
TYPE OF SERVICE, 1959								
1 All water directly from surface and ground water sources.....organizations...	928	365	196	100	271	862	54	32
2 Total water conveyed.....acre-feet...	14,435,032	975,936	3,832,377	4,334,515	5,367,363	11,076,340	1,166,767	208,070
3 Water delivered.....acre-feet...	11,676,449	835,287	3,025,913	3,212,891	4,602,358	9,116,862	792,758	124,493
4 To farm and residential users only.....organizations...	878	361	175	93	250	807	51	25
5 To farm and residential users and other irrigation organizations.....organizations...	5,285,724	811,834	741,890	1,097,048	2,634,952	9,180,325	499,837	95,815
6 To farm and residential users.....acre-feet...	45	3	19	6	19	40	3	2
7 Water to farm and residential users.....acre-feet...	4,106,924	3,766	1,722,749	1,706,380	674,029	1,527,429	231,107	8,438
8 Water to other irrigation organizations.....acre-feet...	2,040,698	2,362	509,234	399,577	1,129,525	1,534,368	61,814	765
9 To other irrigation organizations only.....organizations...	5	1	2	1	2	13	...	4
10 To other irrigation organizations only.....acre-feet...	192,921	17,325	1,950	9,786	163,860	1,874,740	...	19,955
11 Part of water from other organizations.....organizations...	72	5	37	3	28	126	7	5
12 Total water conveyed.....acre-feet...	2,441,649	48,427	1,074,264	634,650	706,723	5,263,783	58,799	35,268
13 From surface and ground water sources.....acre-feet...	895,444	9,241	660,156	251,852	10,839	2,441,182	1-3,055	15,099
14 From other irrigation organizations.....acre-feet...	1,546,205	33,172	515,309	382,798	695,884	2,853,001	61,814	20,169
15 Water delivered.....acre-feet...	2,139,587	44,656	1,032,240	423,383	639,308	4,207,422	46,958	29,164
16 To farm and residential users only.....organizations...	64	4	34	3	23	97	7	5
17 To farm and residential users and other irrigation organizations.....organizations...	1,768,370	22,341	986,930	423,383	335,716	2,775,769	46,958	29,164
18 Water to farm and residential users.....acre-feet...	9	1	3	...	5	28	...	...
19 Water to other irrigation organizations.....acre-feet...	283,653	...	27,147	...	256,506	1,148,378	...	...
20 To other irrigation organizations only.....organizations...	87,564	22,315	18,163	...	47,086	273,571	...	...
21 To other irrigation organizations only.....acre-feet...	...	...	...	...	...	1	...	...
22 All of water from other organizations.....organizations...	102	3	22	7	71	96	...	2
23 Total water conveyed.....acre-feet...	1,005,957	22,606	76,479	26,565	884,131	1,139,294	...	51
24 Water delivered.....acre-feet...	909,916	21,696	63,784	23,042	801,394	1,028,909	...	51
25 To farm and residential users only.....organizations...	89	3	22	7	58	79	...	2
26 To farm and residential users and other irrigation organizations.....organizations...	540,773	21,696	63,784	23,042	432,251	838,310	...	51
27 Water to farm and residential users.....acre-feet...	11	...	...	...	11	9	...	...
28 Water to other irrigation organizations.....acre-feet...	138,164	...	...	...	138,164	20,091	...	...
29 To other irrigation organizations only.....organizations...	229,530	...	...	...	229,530	11,893	...	...
30 To other irrigation organizations only.....acre-feet...	2	...	...	...	2	8	...	...
31 No water conveyed.....organizations...	1,449	...	...	...	1,449	158,615	...	...
32 Water from other sources	9	2	5	1	1	7	1	...
WATER FROM OTHER SOURCES								
33 Organizations reporting no water from other sources used on land served by the organization.....organizations...	963	319	222	97	330	854	54	28
34 Water delivered to farms.....acre-feet...	2,225,336	277,059	868,545	801,865	702,264	3,241,187	298,471	31,161
35 Water delivered to farms.....acre-feet per acre...	2,054,728	251,661	843,380	721,468	653,413	2,617,105	280,330	27,947
36 Organizations reporting water from other sources used on land served by the organization.....organizations...	8,573,679	930,477	3,049,735	3,145,141	3,454,569	7,478,278	751,581	63,851
37 Water delivered to farms.....acre-feet per acre...	4.2	3.7	3.6	4.3	5.3	2.9	2.7	2.3
38 Organizations reporting water from other sources used on land served by the organization.....organizations...	130	53	30	12	36	205	7	6
39 Water delivered to farms.....acre-feet...	473,155	51,466	245,730	44,004	132,755	1,632,020	22,547	4,038
40 Water delivered to farms.....acre-feet per acre...	440,319	44,597	242,439	27,654	126,429	1,164,307	21,924	3,999
41 Water delivered to farms.....acre-feet per acre...	1,932,448	179,985	1,025,486	128,533	601,503	2,396,802	52,334	12,808
42 Water delivered to farms.....acre-feet per acre...	4.4	4.0	4.2	4.6	4.7	2.0	2.4	3.2

¹Water was transferred to the basin and released to natural stream channels in excess of the quantity of surface water withdrawn by irrigation organizations. The net effect was to increase the available surface water supply to the basin or State.

IRRIGATION OF AGRICULTURAL LANDS

Summary Table 10 (Part 2 of 3).—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Continued

Item (For definitions and explanations, see text)		South Pacific Coast (II)—Continued					Great Basin (III)				
		Central Valley				Santa Maria River and Basins South	Total	Northwest Great Basin and Humboldt River	South Central Great Basin	Bonneville Basin excluding Bear River	Bear River
		Total	Sacramento-San Joaquin Delta area and Sacramento River (II-C and II-D)	San Joaquin River (II-E)	San Joaquin Valley above San Joaquin River (II-F)							(II-G)
TYPE OF SERVICE, 1959											
1	All water directly from surface and ground water sources.....organizations.....	266	136	28	128	510	934	42	70	547	277
2	Total water conveyed.....acre-feet.....	9,031,242	4,686,476	4,511,818	2,487,560	738,930	4,433,946	215,512	1,212,108	1,830,402	1,182,214
3	Water delivered.....acre-feet.....	7,563,434	2,750,420	2,841,138	1,971,876	636,177	3,514,061	176,864	746,601	1,559,913	1,030,683
4	To farm and residential users only.....organizations.....	243	106	23	115	488	895	42	69	519	267
5	acre-feet.....	8,300,544	6,829,694	896,418	574,432	284,129	2,432,180	176,864	548,420	1,089,116	617,780
6	To farm and residential users and other irrigation organizations.....organizations.....	19	7	4	11	17	33	...	1	24	8
7	Water to farm and residential users.....acre-feet.....	1,251,581	269,516	597,883	384,182	36,283	415,073	...	27,714	183,139	204,220
8	Water to other irrigation organizations.....acre-feet.....	1,448,676	79,605	1,148,815	220,256	23,613	534,013	...	170,467	171,403	192,143
9	To other irrigation organizations only.....organizations.....	5	3	1	2	4	5	...	...	3	2
10	acre-feet.....	1,562,633	571,605	198,022	793,006	292,152	132,795	...	...	116,255	16,540
11	Part of water from other organizations.....organizations.....	44	17	11	18	70	73	...	2	65	6
12	Total water conveyed.....acre-feet.....	4,069,809	1,986,886	1,350,510	762,813	1,099,947	849,715	...	434,142	392,870	22,703
13	From surface and ground water sources.....acre-feet.....	1,796,419	1,210,748	312,786	272,885	632,719	664,260	...	434,142	222,833	7,285
14	From other irrigation organizations.....acre-feet.....	2,303,790	776,138	1,037,724	489,928	467,228	185,490	...	...	170,037	15,453
15	Water delivered.....acre-feet.....	3,142,147	1,502,236	1,063,979	576,332	989,153	447,443	...	107,088	329,464	10,891
16	To farm and residential users only.....organizations.....	38	12	10	17	47	62	...	...	56	6
17	acre-feet.....	2,469,997	1,034,862	979,969	455,166	229,650	183,187	...	...	172,296	10,891
18	To farm and residential users and other irrigation organizations.....organizations.....	6	5	1	1	22	10	...	2	8	...
19	Water to farm and residential users.....acre-feet.....	488,420	291,574	76,590	120,256	659,958	190,988	...	102,104	88,884	...
20	Water to other irrigation organizations.....acre-feet.....	183,730	175,800	7,020	910	89,841	56,080	...	4,984	51,096	...
21	To other irrigation organizations only.....organizations.....	...	...	...	...	1	1	...	...	1	...
22	acre-feet.....	...	...	...	...	9,704	17,188	...	...	17,188	...
23	All of water from other organizations.....organizations.....	46	6	21	19	48	151	...	27	61	63
24	Total water conveyed.....acre-feet.....	903,530	54,849	324,477	524,244	235,713	611,712	...	193,055	174,089	244,568
25	Water delivered.....acre-feet.....	798,775	43,225	271,098	484,452	230,083	597,073	...	182,350	170,523	204,802
26	To farm and residential users only.....organizations.....	45	5	21	19	32	143	...	26	57	60
27	acre-feet.....	794,798	39,248	271,098	484,452	43,461	456,670	...	164,746	159,133	132,791
28	To farm and residential users and other irrigation organizations.....organizations.....	...	...	...	...	9	5	...	...	2	3
29	Water to farm residential users.....acre-feet.....	...	...	...	...	20,091	23,891	...	...	3,206	20,685
30	Water to other irrigation organizations.....acre-feet.....	...	...	...	...	11,893	53,958	...	...	2,632	51,326
31	To other irrigation organizations only.....organizations.....	1	1	...	...	7	3	...	1	2	...
32	acre-feet.....	3,977	3,977	...	...	154,638	5,552	...	...	5,552	...
33	No water conveyed.....organizations.....	5	4	...	1	1	8	...	3	5	...
WATER FROM OTHER SOURCES											
34	Organizations reporting no water from other sources used on land served by the organization.....organizations.....	245	120	36	93	528	1,002	39	95	560	310
35	acres served... 2,507,194	1,017,062	1,162,036	659,613	410,680	1,472,288	107,752	314,495	632,509	389,700	358,438
36	Water delivered to farms.....acre-feet.....	2,060,468	753,607	989,673	622,644	253,040	1,212,483	79,429	273,027	540,301	358,438
37	acre-feet per acre... 6,090,012	3,112,504	2,840,881	784,247	784,247	3,352,942	169,857	897,302	1,547,072	912,760	912,760
38	3.0	4.1	2.9	1.3	2.3	2.7	2.1	3.1	2.9	2.5	2.5
39	Organizations reporting water from other sources used on land served by the organization.....organizations.....	106	15	23	70	87	143	3	3	103	34
40	acres served... 1,264,886	116,422	146,494	1,034,026	340,549	206,161	3,507	9,906	149,432	43,716	43,716
41	Water delivered to farms.....acre-feet.....	1,055,518	112,274	133,175	841,753	82,866	161,625	3,007	9,906	107,793	41,319
42	acre-feet per acre... 2,172,038	465,809	468,635	1,354,100	159,622	285,534	7,057	20,076	194,759	63,642	63,642
43	2.0	4.1	3.5	1.6	1.9	1.8	2.3	2.1	1.8	1.5	1.5

Summary Table 10 (Part 2 of 3).—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Continued

Item (For definitions and explanations, see text)	Gulf of California (IV)							
	Total	Gila River excluding Colorado River (IV-A and IV-C)	Colorado River					
			Total	Below Lee's Ferry excluding Gila River (IV-B)	Colorado River above Lee's Ferry			
					Total	Excluding Green and Oumman Rivers (IV-D)	Green River (IV-E)	Oumman River (IV-F)
TYPE OF SERVICE, 1959								
All water directly from surface and ground water sources.....organizations...	1,291	97	1,194	94	1,100	512	257	332
Total water conveyed.....acre-feet...	15,078,802	2,136,785	12,942,017	8,060,187	4,881,830	2,360,037	1,391,913	1,131,172
Water delivered.....acre-feet...	12,591,135	1,534,915	11,056,220	7,350,589	3,705,631	1,666,331	1,101,842	937,458
To farm and residential users only.....organizations...	1,256	95	1,161	89	1,072	499	249	325
acre-feet...	3,895,212	583,733	3,311,479	686,526	2,624,953	1,153,002	949,917	522,034
To farm and residential users and other irrigation organizations.....organizations...	33	1	32	14	18	8	4	6
Water to farm and residential users.....acre-feet...	1,435,123	649,000	786,123	38,059	748,064	338,792	25,324	383,948
Water to other irrigation organizations.....acre-feet...	312,031	88,300	223,731	10,605	213,126	169,642	12,678	30,806
To other irrigation organizations only.....organizations...	9	1	8	2	6	5	...	1
acre-feet...	6,861,769	213,882	6,647,887	6,618,299	29,488	4,895	23,923	670
Part of water from other organizations.....organizations...	58	5	53	6	47	30	5	12
Total water conveyed.....acre-feet...	6,080,339	280,408	5,799,931	5,267,480	532,451	146,479	364,545	21,427
From surface and ground water sources.....acre-feet...	1,189,571	199,408	2,095,179	1,200,415	407,015	46,907	343,978	16,130
From other irrigation organizations.....acre-feet...	7,976,110	81,000	7,895,110	7,769,674	125,436	99,572	20,567	5,297
Water delivered.....acre-feet...	5,069,628	230,152	4,839,476	4,367,368	472,108	96,787	356,669	18,652
To farm and residential users only.....organizations...	52	5	47	43	29	4	10	10
acre-feet...	525,660	230,152	295,508	100,419	195,089	96,787	88,228	10,074
To farm and residential users and other irrigation organizations.....organizations...	6	...	6	2	4	1	1	2
Water to farm and residential users.....acre-feet...	2,703,409	...	2,703,409	2,484,078	219,331	...	213,163	6,168
Water to other irrigation organizations.....acre-feet...	1,840,559	...	1,840,559	1,782,871	57,688	...	55,278	2,410
To other irrigation organizations only.....organizations...	...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...	...
All of water from other organizations.....organizations...	39	3	36	9	27	14	5	8
Total water conveyed.....acre-feet...	1,385,913	221,182	1,164,731	979,839	184,892	78,485	71,312	35,095
Water delivered.....acre-feet...	1,174,454	137,688	1,036,766	882,166	154,600	61,158	60,496	32,946
To farm and residential users only.....organizations...	36	3	33	8	25	13	5	7
acre-feet...	938,972	137,688	801,284	681,853	119,431	32,990	60,496	25,945
To farm and residential users and other irrigation organizations.....organizations...	3	...	3	1	2	1	...	1
Water to farm and residential users.....acre-feet...	184,297	...	184,297	159,154	25,143	24,648	...	495
Water to other irrigation organizations.....acre-feet...	51,185	...	51,185	41,159	10,026	3,520	...	6,506
To other irrigation organizations only.....organizations...	...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...	...
No water conveyed.....organizations...	13	...	13	...	13	5	1	7
WATER FROM OTHER SOURCES								
Organizations reporting no water from other sources used on land served by the organization.....organizations...	1,191	74	1,117	105	1,012	497	237	278
acre served...	2,090,620	160,020	1,930,600	788,036	1,142,564	529,641	373,813	239,110
Water delivered to farms.....acre-feet...	1,845,449	124,262	1,721,187	736,834	984,353	441,238	328,565	214,550
acre-feet per acre...	7,611,292	469,924	7,141,368	3,784,596	3,356,772	1,410,592	1,053,160	893,020
Organizations reporting water from other sources used on land served by the organization.....organizations...	185	30	155	3	152	54	26	73
acre served...	724,649	372,719	351,930	78,807	273,123	90,651	151,608	34,364
Water delivered to farms.....acre-feet...	1,130,552	340,072	790,480	526,797	263,683	94,103	149,729	23,351
acre-feet per acre...	2,007,143	1,063,384	943,759	321,642	622,117	192,471	378,708	52,257
	1.8	3.1	1.2	0.6	2.3	2.0	2.5	2.2

¹Water was transferred to the basin and released to natural stream channels in excess of the quantity of surface water withdrawn by irrigation organizations. The net effect was to increase the available surface water supply to the basin or State.

IRRIGATION OF AGRICULTURAL LANDS

Summary Table 10 (Part 2 of 3).—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Continued

Item (For definitions and explanations, see text)	Gulf of Mexico excluding Mississippi River (V)					Mississippi River (VI)	
	Total	Mermentau River excluding Rio Grande River (V-A and V-D)	Rio Grande River			Total	Arkansas River (VI-A and VI-B)
			Total	Below Fort Quitman, Texas (V-B)	Above Fort Quitman, Texas (V-C)		
TYPE OF SERVICE, 1959							
1 All water directly from surface and ground water sources.....organizations...	773	252	521	87	434	1,882	345
2 Total water conveyed.....acre-feet...	4,892,947	1,860,830	3,032,117	1,205,194	1,826,923	14,204,429	1,538,063
3 Water delivered.....acre-feet...	3,698,059	1,534,893	2,163,166	883,091	1,280,175	10,611,001	1,213,266
4 To farm and residential users only.....organizations...	746	251	495	79	416	1,776	329
5 acre-feet...	2,916,087	1,394,328	1,521,759	569,912	951,847	7,190,173	774,143
6 To farm and residential users and other irrigation organizations.....organizations...	25	1	24	7	17	87	15
7 Water to farm and residential users.....acre-feet...	590,456	128,565	461,891	223,951	237,940	1,762,561	230,669
8 Water to other irrigation organizations.....acre-feet...	134,595	12,000	122,595	53,401	69,194	1,160,231	153,160
9 To other irrigation organizations only.....organizations...	2	...	2	1	1	14	1
10 acre-feet...	56,921	...	56,921	35,827	21,094	497,936	55,294
11 Part of water from other organizations.....organizations...	20	...	20	9	11	87	7
12 Total water conveyed.....acre-feet...	131,233	...	131,233	65,985	65,248	1,267,515	206,425
13 From surface and ground water sources.....acre-feet...	66,111	...	66,111	55,856	10,255	432,020	126,711
14 From other irrigation organizations.....acre-feet...	65,122	...	65,122	10,129	54,993	848,540	79,714
15 Water delivered.....acre-feet...	102,003	...	102,003	53,024	48,979	1,304,523	156,148
16 To farm and residential users only.....organizations...	18	...	18	7	11	74	16
17 acre-feet...	62,774	...	62,774	13,795	48,979	424,874	32,489
18 To farm and residential users and other irrigation organizations.....organizations...	2	...	2	2	...	22	3
19 Water to farm and residential users.....acre-feet...	38,893	...	38,893	38,893	...	554,046	69,909
20 Water to other irrigation organizations.....acre-feet...	336	...	336	336	...	296,927	53,750
21 To other irrigation organizations only.....organizations...	...	...	...	...	...	...	...
22 acre-feet...	...	...	...	...	...	28,676	...
23 All of water from other organizations.....organizations...	29	2	28	11	17	230	44
24 Total water conveyed.....acre-feet...	126,830	13,045	114,830	79,435	35,395	1,222,136	182,490
25 Water delivered.....acre-feet...	99,119	12,611	86,508	57,472	29,036	985,091	163,203
26 To farm and residential users only.....organizations...	29	2	28	11	17	215	44
27 acre-feet...	99,119	12,611	86,508	57,472	29,036	863,356	163,203
28 To farm and residential users and other irrigation organizations.....organizations...	...	...	...	...	...	15	...
29 Water to farm residential users.....acre-feet...	...	...	...	...	...	65,976	...
30 Water to other irrigation organizations.....acre-feet...	...	...	...	...	...	55,759	...
31 To other irrigation organizations only.....organizations...	...	...	...	...	...	...	...
32 acre-feet...	...	...	...	...	...	...	...
33 No water conveyed.....organizations...	4	...	4	1	3	29	2
WATER FROM OTHER SOURCES							
34 Organizations reporting no water from other sources used on land served by the organization.....organizations...	741	252	490	96	394	1,767	368
35 acres served.....	2,201,699	824,797	1,383,382	688,872	697,510	4,086,292	575,313
36 acres irrigated.....	1,564,726	459,348	1,109,557	544,371	565,186	3,509,388	497,800
37 Water delivered to farms.....acre-feet...	3,219,303	1,449,412	1,772,715	731,315	1,041,400	8,468,300	1,018,344
38 acre-feet per acre...	2.1	3.2	1.6	1.3	1.8	2.4	2.0
39 Organizations reporting water from other sources used on land served by the organization.....organizations...	79	2	77	10	67	405	27
40 acres served.....	375,863	37,500	338,363	110,235	228,128	1,068,195	106,709
41 acres irrigated.....	227,794	8,435	219,359	94,303	125,056	988,172	93,523
42 Water delivered to farms.....acre-feet...	402,734	61,594	341,142	166,209	174,933	2,044,203	247,196
43 acre-feet per acre...	1.8	7.3	1.5	1.8	1.4	2.1	2.6

Summary Table 10 (Part 2 of 3).—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Continued

Item (For definitions and explanations, see text)	Mississippi River (VI)—Continued										Radsen Bay (Red River of the North)
	Missouri River										
	Total	Below Three Forks, Montana excluding Platte and Yellow- stone Rivers (VI-C)	Platte River		Yellowstone River			Headwaters above Three Forks, Montana (VI-H)	(VII)		
			Total	Excluding South Platte River (VI-D)	Total	Excluding Big Horn River (VI-F)	Big Horn River (VI-G)				
TYPE OF SERVICE, 1959											
1 All water directly from surface and											
2 ground water sources.....organizations...	1,537	189	462	227	235	599	395	204	287	2	(D)
3 Total water conveyed.....acre-feet...	12,666,366	1,536,314	4,713,921	2,755,578	1,958,343	4,863,439	2,255,753	2,607,686	1,552,692	1,175,609	(D)
4 Water delivered.....acre-feet...	9,397,735	1,111,149	3,364,530	1,788,299	1,576,231	3,746,447	1,738,297	2,008,150	1,175,609	279	(D)
5 To farm and residential											
6 users only.....organizations...	1,447	183	414	219	195	571	380	191	279	2	(D)
7 acre-feet...	6,416,030	956,261	1,723,935	1,127,701	596,234	2,672,099	1,299,411	1,372,688	1,063,735	...	
8 To farm and residential users and other											
9 irrigation organizations.....organizations...	72	6	38	5	33	20	9	11	8	...	
10 Water to farm and residential											
11 users.....acre-feet...	1,531,892	61,273	728,794	387,364	341,430	715,754	327,526	388,228	26,071	...	
12 Water to other irrigation											
13 organizations.....acre-feet...	1,007,071	93,615	497,498	262,856	234,642	330,155	103,635	226,520	85,803	...	
14 To other irrigation organizations											
15 only.....organizations...	13	...	...	1	7	5	4	1	...	...
16 acre-feet...	442,642	...	414,303	10,378	403,925	28,339	7,625	20,714	...	...
17 Part of water from other											
18 organizations.....organizations...	80	5	47	4	43	22	9	13	6	...	
19 Total water conveyed.....acre-feet...	1,061,090	50,465	743,719	44,975	698,744	247,099	77,854	169,245	19,807	...	
20 From surface and ground water											
21 sources.....acre-feet...	305,309	17,938	241,660	27,389	214,271	31,576	51,906	1,20,330	14,135	...	
22 From other irrigation											
23 organizations.....acre-feet...	768,826	63,574	481,883	17,586	464,297	217,697	28,238	189,459	5,672	...	
24 Water delivered.....acre-feet...	1,148,375	34,736	924,501	316,936	607,565	173,691	62,551	111,140	15,447	...	
25 To farm and residential											
26 users only.....organizations...	58	5	28	3	25	20	7	13	5	...	
27 acre-feet...	392,385	34,736	186,108	36,917	149,191	163,294	52,154	111,140	8,247	...	
28 To farm and residential users and other											
29 irrigation organizations.....organizations...	19	...	16	1	15	2	2	...	1	...	
30 Water to farm and residential											
31 users.....acre-feet...	484,137	...	476,560	280,019	196,541	4,277	4,277	...	3,300	...	
32 Water to other irrigation											
33 organizations.....acre-feet...	243,177	...	233,157	...	233,157	6,120	6,120	...	3,900	...	
34 To other irrigation organizations											
35 only.....organizations...	...	...	...	...	2	...	...	...	...	...
36 acre-feet...	28,676	...	28,676	...	28,676	...	...	...	...	...
37 All of water from other											
38 organizations.....organizations...	186	3	157	29	128	16	10	6	10	...	
39 Total water conveyed.....acre-feet...	1,039,646	61,088	747,510	255,648	491,862	147,017	89,142	57,875	84,031	...	
40 Water delivered.....acre-feet...	821,888	44,517	601,539	166,768	434,771	118,992	72,428	46,564	56,840	...	
41 To farm and residential											
42 users only.....organizations...	171	3	142	29	113	16	10	6	10	...	
43 acre-feet...	700,153	44,517	479,804	166,768	313,036	118,992	72,428	46,564	56,840	...	
44 To farm and residential users and other											
45 irrigation organizations.....organizations...	15	...	15	...	15	...	...	...	...	...
46 Water to farm and residential											
47 users.....acre-feet...	65,976	...	65,976	...	65,976	...	...	...	...	...
48 Water to other irrigation											
49 organizations.....acre-feet...	55,759	...	55,759	...	55,759	...	...	...	...	...
50 To other irrigation organizations											
51 only.....organizations...	...	...	...	...	...	...	...	...	...	...
52 acre-feet...	...	...	...	...	...	...	...	...	...	...
53 No water conveyed.....organizations...	27	8	8	3	7	9	8	1	2	...	
WATER FROM OTHER SOURCES											
54 Organizations reporting no water from											
55 other sources used on land served											
56 by the organization.....organizations...	1,399	172	443	242	201	595	381	214	189	...	
57 acres served.....	2,265,802	711,678	1,554,123	1,058,280	495,843	1,070,386	534,401	536,185	174,592	...	(D)
58 acres irrigated.....	3,011,588	538,072	1,361,341	906,804	454,537	963,861	478,823	485,038	148,314	...	(D)
59 Water delivered to farms.....acre-feet...	3,328,897	982,915	2,345,982	1,606,938	739,044	3,477,324	1,574,844	1,902,480	643,735	...	0.8
60 acre-foot per acre.....	1.1	1.8	1.7	1.8	1.6	3.6	3.3	3.9	4.3	...	
61 Organizations reporting water from other											
62 sources used on land served by the											
63 organization.....organizations...	381	23	208	14	194	34	27	7	113	...	
64 acre served.....	776,244	54,594	721,650	58,963	662,687	46,857	38,431	8,426	138,385	...	
65 acres irrigated.....	743,432	39,704	703,728	78,933	622,795	36,398	32,231	4,167	116,819	...	
66 Water delivered to farms.....acre-feet...	1,116,733	106,628	1,010,105	110,196	899,909	171,456	161,107	10,349	508,818	...	
67 acre-foot per acre.....	1.5	2.7	1.4	1.4	1.4	4.7	5.0	2.5	4.3	...	

¹Water was transferred to the basin and released to natural stream channels in excess of the quantity of surface water withdrawn by irrigation organizations. The net effect was to increase the available surface water supply to the basin or State.

IRRIGATION OF AGRICULTURAL LANDS

Summary Table 10 (Part 3 of 3).—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950

Item (For definitions and explanations, see text)	18 States, total	North Pacific Coast (1)				
		Columbia River				
		Total	Excluding Columbia River	Total	Below Snake River	Above Snake River excluding Yakima River
		(I-A)		(I-B)	(I-C)	(I-D)
WATER DELIVERED PER ACRE						
Organizations reporting no water from other sources used on same land:						
0.1 to 0.9 acre-feet per acre.....organizations...	468	59	8	51	2	11
acres irrigated.....	1,262,270	33,295	780	32,515	460	3,530
1.0 to 1.9 acre-feet per acre.....organizations...	1,543	212	19	193	20	47
acres irrigated.....	3,179,506	254,560	2,391	252,178	18,440	115,543
2.0 to 2.9 acre-feet per acre.....organizations...	1,681	308	24	284	31	69
acres irrigated.....	2,639,526	221,760	27,362	194,398	12,407	45,882
3.0 to 3.9 acre-feet per acre.....organizations...	1,307	306	30	276	43	83
acres irrigated.....	2,111,608	42,190	9,505	452,865	61,198	113,100
4.0 to 4.9 acre-feet per acre.....organizations...	829	295	14	281	49	64
acres irrigated.....	2,040,144	1,147,960	6,038	1,141,922	67,713	322,213
5.0 to 5.9 acre-feet per acre.....organizations...	511	177	7	170	18	32
acres irrigated.....	1,444,832	451,710	5,394	446,486	10,689	10,343
6.0 to 6.9 acre-feet per acre.....organizations...	332	128	5	123	11	19
acres irrigated.....	654,422	391,471	8,222	383,272	8,927	17,884
7.0 to 7.9 acre-feet per acre.....organizations...	222	93	3	90	10	18
acres irrigated.....	211,791	95,237	2,708	92,619	3,368	6,176
8.0 to 9.9 acre-feet per acre.....organizations...	256	119	7	112	22	19
acres irrigated.....	266,046	124,221	5,504	118,717	10,167	4,463
10.0 or more acre-feet per acre.....organizations...	152	59	...	59	8	1
acres irrigated.....	93,024	54,626	...	54,626	1,236	750
SIZE OF ORGANIZATION						
Size of organization (number of farm irrigation water users served directly):						
None.....organizations...	164	26	...	26	4	3
1 to 3.....organizations...	2,811	697	...	653	84	211
water users.....	6,672	1,653	111	1,542	206	488
4 to 9.....organizations...	2,459	639	41	598	75	115
water users.....	14,402	3,671	235	3,426	430	134
10 to 29.....organizations...	1,754	364	...	364	59	20
water users.....	28,311	6,167	393	5,774	790	878
30 to 99.....organizations...	972	188	7	181	24	43
water users.....	50,993	9,975	366	9,609	1,401	2,118
100 to 299.....organizations...	369	64	5	59	7	15
water users.....	60,896	10,968	984	9,984	1,295	2,859
300 to 999.....organizations...	168	38	2	36	6	8
water users.....	81,392	21,067	975	20,092	3,428	4,270
1,000 or more.....organizations...	52	19	1	18	...	5
water users.....	141,388	38,327	2,332	35,995	...	8,077
Size of organization (acre-feet of water delivered directly to farms):						
None.....organizations...	164	26	...	26	2	4
1 to 299 acre-feet.....organizations...	1,982	430	43	387	70	129
acre-feet.....	279,411	64,630	4,841	59,789	10,614	18,961
300 to 999 acre-feet.....organizations...	2,310	530	37	493	79	145
acre-feet.....	1,348,478	317,595	21,327	296,268	45,819	84,755
1,000 to 2,999 acre-feet.....organizations...	2,046	473	19	454	51	108
acre-feet.....	3,651,596	844,526	29,777	815,149	93,669	183,856
3,000 to 9,999 acre-feet.....organizations...	1,406	369	11	358	24	55
acre-feet.....	7,577,594	1,994,216	50,492	1,943,924	133,319	291,362
10,000 to 29,999 acre-feet.....organizations...	546	143	10	133	11	13
acre-feet.....	9,065,377	2,433,914	145,813	2,288,101	205,834	192,981
30,000 to 99,999 acre-feet.....organizations...	216	57	1	56	5	6
acre-feet.....	10,659,341	2,897,781	46,651	2,851,130	218,955	329,839
100,000 or more acre-feet.....organizations...	79	28	...	28	2	1
acre-feet.....	21,946,756	8,963,142	...	8,963,142	353,937	1,060,000
Size of organization (acre-feet of water conveyed):						
None.....organizations...	80	15	...	15	2	2
1 to 299 acre-feet.....organizations...	1,707	398	38	320	62	106
acre-feet.....	249,223	55,113	4,103	51,010	9,388	15,486
300 to 999 acre-feet.....organizations...	2,197	509	35	474	81	143
acre-feet.....	1,294,597	298,442	19,776	278,666	46,403	84,616
1,000 to 2,999 acre-feet.....organizations...	2,059	473	26	447	47	116
acre-feet.....	3,777,792	832,205	44,411	787,794	79,683	197,658
3,000 to 9,999 acre-feet.....organizations...	1,597	403	11	392	30	65
acre-feet.....	8,634,680	2,124,572	57,807	2,066,765	153,473	355,180
10,000 to 29,999 acre-feet.....organizations...	581	178	8	170	18	11
acre-feet.....	11,400,356	2,924,685	130,530	2,794,155	217,013	265,705
30,000 to 99,999 acre-feet.....organizations...	296	80	3	77	8	9
acre-feet.....	16,003,825	3,979,722	125,398	3,854,324	425,507	528,916
100,000 or more acre-feet.....organizations...	132	40	...	40	2	2
acre-feet.....	50,944,217	14,054,166	...	14,054,166	518,509	1,809,972
						1,934,769

SUMMARY

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Summary Table 10 (Part 3 of 3).—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Continued

Item (For definitions and explanations, see text)	North Pacific Coast (I)—Continued					South Pacific Coast (II)		
	Columbia River—Continued					Total	Klamath River	Klamath River to Santa Maria River excluding Central Valley
	Snake River							
	Total	Below Weiser, Idaho	Weiser, Idaho to King Hill, Idaho	King Hill, Idaho to American Falls	Above American Falls			
		(I-E)	(I-F)	(I-G)	(I-H)		(II-A)	(II-B)
WATER DELIVERED PER ACRE								
Organizations reporting no water from other sources used on same land:								
0.1 to 0.9 acre-feet per acre.....organizations...	34	13	4	3	14	52	1	6
1.0 to 1.9 acre-feet per acre.....organizations...	27,025	12,856	2,557	6,570	5,042	319,200	500	560
2.0 to 2.9 acre-feet per acre.....organizations...	119	44	20	17	38	178	4	8
3.0 to 3.9 acre-feet per acre.....organizations...	110,830	24,603	30,820	22,591	32,816	505,634	18,736	11,278
4.0 to 4.9 acre-feet per acre.....organizations...	171	72	37	18	44	223	23	7
5.0 to 5.9 acre-feet per acre.....organizations...	123,105	42,238	18,047	18,742	44,078	688,251	155,133	12,309
6.0 to 6.9 acre-feet per acre.....organizations...	138	59	28	17	34	177	23	2
7.0 to 7.9 acre-feet per acre.....organizations...	255,294	39,984	35,100	97,695	82,515	611,133	102,989	115
8.0 to 8.9 acre-feet per acre.....organizations...	150	58	43	12	40	103	1	1
9.0 to 9.9 acre-feet per acre.....organizations...	653,823	93,904	326,230	361,409	85,124	222,206	1,480	3,141
10.0 or more acre-feet per acre.....organizations...	105	24	35	8	40	47	1	1
acres irrigated.....	421,295	19,819	335,272	205,362	63,142	107,562	1,460	94
6.0 to 6.9 acre-feet per acre.....organizations...	87	20	27	4	36	26	...	1
7.0 to 7.9 acre-feet per acre.....organizations...	229,673	6,603	66,748	1,995	154,727	96,941	...	305
8.0 to 8.9 acre-feet per acre.....organizations...	81,254	5,334	20,371	335	55,214	39,090	...	...
9.0 to 9.9 acre-feet per acre.....organizations...	61	12	9	7	33	18	...	...
10.0 or more acre-feet per acre.....organizations...	100,139	4,370	8,235	4,315	83,219	25,209	32	145
acres irrigated.....	47	5	...	9	33	6	...	...
52,340	1,950	...	...	2,854	47,536	1,879	...	...
SIZE OF ORGANIZATION								
Size of organization (number of farm irrigation water users served directly):								
None.....organizations...	17	3	7	2	5	32	1	5
1 to 3.....organizations...	315	131	64	36	84	232	14	6
4 to 9.....organizations...	743	313	150	85	195	549	35	15
10 to 29.....organizations...	383	164	78	37	104	284	15	14
30 to 99.....organizations...	2,218	925	467	211	615	1,618	70	90
100 to 299.....organizations...	239	63	59	19	100	247	11	6
300 to 999.....organizations...	3,811	1,005	942	326	1,380	3,998	176	101
1,000 or more.....organizations...	103	11	29	6	57	153	15	4
water users.....	5,464	461	1,497	389	3,117	7,908	824	245
100 to 299.....organizations...	28	...	10	5	14	81	...	...
300 to 999.....organizations...	4,538	...	1,876	818	2,044	13,271	277	594
1,000 or more.....organizations...	16	...	6	2	6	...	...	...
water users.....	9,611	1,139	3,601	1,541	3,330	24,530	2,718	308
1,000 or more.....organizations...	9	1	4	1	14	...	...	...
water users.....	19,133	1,132	15,908	7,351	1,000	60,233	...	...
Size of organization (acre-feet of water delivered directly to farms):								
None.....organizations...	17	3	7	2	5	32	1	5
1 to 299 acre-feet.....organizations...	171	70	39	19	43	389	3	18
300 to 999 acre-feet.....organizations...	27,134	11,313	6,275	3,333	6,213	47,319	597	1,775
1,000 to 2,999 acre-feet.....organizations...	237	107	44	27	59	247	10	6
3,000 to 9,999 acre-feet.....organizations...	148,829	67,591	30,417	14,834	35,987	134,958	4,628	3,037
10,000 to 29,999 acre-feet.....organizations...	261	109	57	26	69	148	15	3
30,000 to 99,999 acre-feet.....organizations...	478,806	200,985	108,072	45,516	124,233	268,121	28,779	4,862
100,000 or more acre-feet.....organizations...	259	71	65	18	107	122	15	1
acre-feet.....	1,405,992	344,938	365,665	98,726	604,222	682,128	89,450	5,696
10,000 to 29,999 acre-feet.....organizations...	103	14	28	8	53	87	13	6
30,000 to 99,999 acre-feet.....organizations...	1,796,965	218,982	485,616	154,674	397,693	1,540,353	211,176	82,479
100,000 or more acre-feet.....organizations...	41	...	10	5	27	45	3	...
acre-feet.....	2,108,221	...	573,202	220,915	1,367,844	2,651,654	173,655	...
100,000 or more acre-feet.....organizations...	21	1	9	6	8	21	2	...
acre-feet.....	5,977,861	266,693	3,560,055	2,735,676	1,363,480	4,524,182	295,670	...
Size of organization (acre-feet of water conveyed):								
None.....organizations...	9	2	5	1	7	1	...	...
1 to 299 acre-feet.....organizations...	139	55	33	12	39	356	3	15
300 to 999 acre-feet.....organizations...	23,678	8,953	5,669	1,964	7,092	45,008	621	1,517
1,000 to 2,999 acre-feet.....organizations...	220	103	38	30	49	230	9	6
3,000 to 9,999 acre-feet.....organizations...	130,030	62,764	21,364	15,503	30,399	123,820	5,027	2,977
10,000 to 29,999 acre-feet.....organizations...	252	105	50	26	71	150	14	5
30,000 to 99,999 acre-feet.....organizations...	448,624	188,466	94,825	45,057	120,276	268,068	29,589	8,046
100,000 or more acre-feet.....organizations...	274	89	70	18	98	152	15	...
acre-feet.....	1,443,501	445,008	359,180	95,582	547,555	878,655	89,893	27,149
10,000 to 29,999 acre-feet.....organizations...	129	18	36	11	64	101	13	7
30,000 to 99,999 acre-feet.....organizations...	2,161,575	278,713	597,544	174,481	1,110,837	1,710,549	188,370	83,471
100,000 or more acre-feet.....organizations...	55	2	15	6	34	53	4	...
acre-feet.....	2,633,094	76,947	664,505	312,576	1,676,583	2,868,920	201,698	120,229
100,000 or more acre-feet.....organizations...	32	1	12	7	15	41	3	...
acre-feet.....	9,790,916	498,271	4,431,391	4,350,567	3,464,165	11,741,178	707,170	...

IRRIGATION OF AGRICULTURAL LANDS

Summary Table 10 (Part 3 of 3).—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Continued

Item (For definitions and explanations, see text)	South Pacific Coast (II)—Continued					Great Basin (III)				
	Central Valley					Total	Great Basin (III)			
	Sacramento-San Joaquin Delta area, and Sacramento River (II-C and II-D)	San Joaquin River (II-E)	San Joaquin Valley above San Joaquin River (II-F)	Santa Maria River and Basins South (II-G)	Northwest Great Basin and Humboldt River (III-A and III-B)		South Central (III-C)	Bonneville Basin excluding Bear River (III-D)	Bear River (III-E)	
WATER DELIVERED PER ACRE										
Organizations reporting 50 water from other sources used on same land:										
0.1 to 0.9 acre-feet per acre.....organizations...	5	...	...	5	40	59	6	2	35	16
1.0 to 1.9 acre-feet per acre.....organizations...	287,214	...	...	287,214	30,926	73,011	7,973	630	32,558	31,850
2.0 to 2.9 acre-feet per acre.....organizations...	406,438	66,365	249,722	265,371	73,862	273,851	15,824	29,524	128,984	99,519
3.0 to 3.9 acre-feet per acre.....organizations...	417,391	186,709	274,533	14,869	103,418	406,420	43,432	92,805	152,947	117,236
4.0 to 4.9 acre-feet per acre.....organizations...	480,389	161,692	345,882	44,531	27,640	272,176	12,200	132,394	85,026	47,856
5.0 to 5.9 acre-feet per acre.....organizations...	204,552	82,931	116,371	5,250	13,033	109,302	...	7,923	94,060	40,751
6.0 to 6.9 acre-feet per acre.....organizations...	104,095	97,754	2,375	3,966	1,913	30,939	...	7,044	15,874	8,021
7.0 to 7.9 acre-feet per acre.....organizations...	55,699	55,699	...	...	...	...	...	...	...	...
8.0 to 7.9 acre-feet per acre.....organizations...	12	9	1	2	11	13	...	...	8	5
9.0 to 9.9 acre-feet per acre.....organizations...	38,567	37,721	250	596	523	12,377	...	...	1,267	11,110
10.0 or more acre-feet per acre.....organizations...	24,517	23,901	...	616	515	12,915	...	...	12,182	733
10.0 or more acre-feet per acre.....organizations...	3	2	1	...	3	6	...	1	5	...
10.0 or more acre-feet per acre.....organizations...	1,606	1,066	540	...	273	2,626	...	1,332	1,294	...
SIZE OF ORGANIZATION										
Size of organization (number of farm irrigation water users served directly):										
None.....organizations...	12	9	1	3	14	21	...	5	14	2
1 to 3.....organizations...	56	17	12	27	156	214	15	23	95	81
4 to 9.....organizations...	132	43	30	59	308	367	23	52	189	231
10 to 29.....organizations...	79	32	10	39	176	336	20	41	187	83
30 to 99.....organizations...	461	182	64	229	997	1,999	98	244	1,119	498
100 to 299.....organizations...	81	29	12	41	149	318	5	18	185	111
300 to 999.....organizations...	1,385	441	726	216	5,326	75	3,104	318	1,839	1,839
1,000 or more.....organizations...	56	19	7	30	78	173	1	10	120	42
Size of organization (acre-feet of water delivered directly to farms):										
None.....organizations...	2,755	1,014	301	1,440	4,084	9,075	40	593	6,317	2,125
1 to 299 acre-feet.....organizations...	38	21	6	13	37	76	1	3	56	16
300 to 999 acre-feet.....organizations...	6,671	3,978	1,051	2,492	6,020	12,711	114	303	9,667	2,627
1,000 or more.....organizations...	13,249	5,950	2,167	5,132	8,255	13,618	...	952	10,398	3,062
Size of organization (acre-feet of water conveyed):										
None.....organizations...	54,514	7,653	43,705	32,365	5,719	1,404	...	1,404	...	...
1 to 299 acre-feet.....organizations...	12	9	1	3	14	21	...	5	14	2
300 to 999 acre-feet.....organizations...	39	3	6	30	329	221	4	8	156	53
1,000 or more acre-feet.....organizations...	4,178	496	606	3,076	40,809	33,017	477	1,129	22,215	9,196
1,000 or more acre-feet.....organizations...	51	13	2	36	180	346	14	16	210	106
1,000 or more acre-feet.....organizations...	31,321	9,075	1,158	21,118	95,942	207,342	8,409	11,574	118,541	68,818
1,000 or more acre-feet.....organizations...	62	27	5	30	68	313	14	28	168	103
1,000 or more acre-feet.....organizations...	112,935	46,107	9,842	56,986	121,545	541,537	23,572	51,389	296,787	169,789
1,000 or more acre-feet.....organizations...	80	35	17	30	26	203	7	32	96	68
1,000 or more acre-feet.....organizations...	448,299	182,045	95,505	170,749	344,379	1,083,542	32,693	202,606	513,381	334,662
1,000 or more acre-feet.....organizations...	57	28	11	20	11	48	2	10	27	10
1,000 or more acre-feet.....organizations...	1,030,782	483,398	191,979	381,545	215,916	767,301	40,500	156,680	435,735	150,886
1,000 or more acre-feet.....organizations...	42	22	10	12	...	...	...	...	...	...
1,000 or more acre-feet.....organizations...	2,477,999	1,321,572	570,994	701,939	...	375,072	...	43,875	225,670	105,502
1,000 or more acre-feet.....organizations...	18	8	5	1	3	3	...	2	1	1
1,000 or more acre-feet.....organizations...	4,108,951	1,535,620	2,450,787	794,024	119,561	1,175,486	712,000	325,937	137,549	137,549
Size of organization (acre-feet of water conveyed):										
None.....organizations...	5	4	...	1	1	9	...	3	6	...
1 to 299 acre-feet.....organizations...	38	3	6	29	300	170	4	7	120	41
300 to 999 acre-feet.....organizations...	4,239	915	635	3,089	38,631	25,885	514	700	17,772	6,899
1,000 or more acre-feet.....organizations...	41	9	2	30	174	319	13	11	216	93
1,000 or more acre-feet.....organizations...	24,542	5,923	1,258	17,361	91,274	190,839	9,017	6,962	116,567	58,293
1,000 or more acre-feet.....organizations...	56	22	5	29	75	341	14	32	180	115
1,000 or more acre-feet.....organizations...	101,331	38,120	11,086	52,125	129,102	601,486	25,861	56,555	320,994	198,076
1,000 or more acre-feet.....organizations...	86	37	15	34	27	235	8	33	119	75
1,000 or more acre-feet.....organizations...	494,564	216,115	89,598	188,851	267,049	1,288,405	40,120	206,477	633,459	408,349
1,000 or more acre-feet.....organizations...	58	30	11	17	23	65	2	14	35	15
1,000 or more acre-feet.....organizations...	1,039,398	546,963	185,862	306,373	399,310	1,061,638	43,000	221,999	563,101	250,038
1,000 or more acre-feet.....organizations...	42	10	2	13	6	23	...	...	...	...
1,000 or more acre-feet.....organizations...	2,334,693	644,540	595,776	280,969	1,219,578	97,000	48,750	775,988	297,840	6
1,000 or more acre-feet.....organizations...	35	17	13	3	4	...	...	1	1	1
1,000 or more acre-feet.....organizations...	10,038,838	4,956,227	5,650,456	4,103,201	995,170	1,436,960	...	1,206,960	230,000	230,000

Summary Table 10 (Part 3 of 3).—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Continued

Item (For definitions and explanations, see text)		Gulf of California (IV)								
		Total	Gila River excluding Colorado River (IV-A and IV-C)	Total	Below Lees Ferry excluding Gila River (IV-B)	Colorado River				
						Colorado River above Lees Ferry				
						Total	Excluding Green and Gunnison Rivers (IV-D)	Green River (IV-E)	Gunnison River (IV-F)	
WATER DELIVERED PER ACRE										
Organizations reporting NO water from other sources used on same land:										
0.1 to 0.9 acre-feet per acre.....organizations...		89	6	83	6	77	45	9	23	
1.0 to 1.9 acre-feet per acre.....organizations...		65,962	3,319	62,643	3,126	59,517	37,045	5,313	17,159	
2.0 to 2.9 acre-feet per acre.....organizations...		275,421	2,330	273,091	12,496	260,595	96,885	140,608	23,102	
3.0 to 3.9 acre-feet per acre.....organizations...		270,742	54,174	216,568	10,465	206,103	109,619	67,926	28,558	
4.0 to 4.9 acre-feet per acre.....organizations...		121,116	13	115,901	7,199	108,702	69,035	20,353	19,314	
5.0 to 5.9 acre-feet per acre.....organizations...		265,554	37,396	228,158	51,593	176,565	68,586	20,501	87,478	
6.0 to 6.9 acre-feet per acre.....organizations...		683,602	12,686	670,916	613,251	57,665	20,176	23,816	13,673	
7.0 to 7.9 acre-feet per acre.....organizations...		51	1	50	6	44	18	10	16	
8.0 to 8.9 acre-feet per acre.....organizations...		25,135	60	25,075	6,596	18,479	6,236	6,755	5,488	
9.0 to 9.9 acre-feet per acre.....organizations...		61,243	6,710	54,533	21,435	33,098	11,525	10,697	10,876	
10.0 or more acre-feet per acre.....organizations...		49	4	45	3	42	18	22	22	
acres irrigated...		19,674	2,172	17,502	3,255	14,247	8,527	390	5,330	
SIZE OF ORGANIZATION										
Size of organization (number of farm irrigation water users served directly):										
None.....organizations...		26	1	25	2	23	10	5	8	
1 to 3.....organizations...		990	23	967	15	552	245	121	186	
4 to 9.....organizations...		1,401	57	1,344	36	1,308	583	296	429	
10 to 29.....organizations...		2,192	133	2,059	228	1,831	330	157	108	
30 to 99.....organizations...		3,302	400	2,902	372	2,530	1,271	721	538	
100 to 299.....organizations...		6,797	1,023	5,774	1,765	4,009	2,184	987	838	
300 to 999.....organizations...		42	6	36	8	28	20	5	4	
1,000 or more.....organizations...		6,490	997	5,493	1,316	4,177	2,838	913	560	
water users.....		20	4	16	3	13	6	6	1	
1,000 or more.....organizations...		10,128	1,558	8,570	1,327	7,243	2,775	2,806	1,662	
water users.....		4	2	2	1	1	1	...	...
Size of organization (acre-feet of water delivered directly to farms):										
None.....organizations...		26	1	25	2	23	10	5	8	
1 to 299 acre-feet.....organizations...		309	18	291	27	264	143	77	101	
300 to 999 acre-feet.....organizations...		40,574	1,883	38,691	4,084	34,607	19,803	3,608	11,196	
1,000 to 2,999 acre-feet.....organizations...		392	28	364	25	339	159	75	105	
3,000 to 9,999 acre-feet.....organizations...		234,156	17,189	216,967	15,186	201,781	91,484	46,421	63,876	
10,000 to 29,999 acre-feet.....organizations...		399	21	378	34	364	142	77	86	
30,000 to 99,999 acre-feet.....organizations...		662,104	36,967	625,137	64,938	560,199	261,659	142,968	156,891	
100,000 or more acre-feet.....organizations...		208	16	192	9	183	75	59	49	
acres irrigated...		1,086,747	91,230	995,517	46,710	948,807	404,637	303,873	240,297	
1,081,816		183,195	898,621	62,180	836,441	408,687	303,271	8	124,483	
30,000 to 99,999 acre-feet.....organizations...		25	7	18	3	15	7	8	...	
1,352,089		388,976	963,513	128,036	835,477	418,684	...	...	...
100,000 or more acre-feet.....organizations...		12	3	9	7	2	1	2	...	
acres irrigated...		5,167,519	814,268	4,353,251	3,791,674	561,577	...	213,043	348,534	
Size of organization (acre-feet of water conveyed):										
None.....organizations...		14	...	14	...	14	5	2	7	
1 to 299 acre-feet.....organizations...		276	18	258	23	235	124	17	94	
300 to 999 acre-feet.....organizations...		38,595	2,378	36,217	3,864	32,353	18,448	3,355	10,550	
1,000 to 2,999 acre-feet.....organizations...		379	22	357	23	334	168	67	99	
3,000 to 9,999 acre-feet.....organizations...		232,643	14,149	218,494	13,913	204,581	101,945	41,900	60,736	
10,000 to 29,999 acre-feet.....organizations...		352	23	329	24	304	130	80	85	
30,000 to 99,999 acre-feet.....organizations...		652,151	41,396	610,755	62,805	547,950	244,716	149,971	154,816	
100,000 or more acre-feet.....organizations...		238	16	222	12	210	84	65	61	
acres irrigated...		1,210,308	76,825	1,133,483	52,986	1,080,497	413,569	361,707	305,221	
1,456,465		184,738	1,271,727	75,641	1,196,086	585,038	414,850	196,198	...	
1,787,476		488,348	1,299,128	166,744	1,132,384	597,711	574,673	...	...
100,000 or more acre-feet.....organizations...		19	5	14	5	3	1	1	...	
acres irrigated...		17,022,918	1,830,541	15,192,377	13,634,815	1,597,562	828,687	268,441	460,434	

Summary Table 10 (Part 3 of 3).—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Continued

Item (For definitions and explanations, see text)	Gulf of Mexico excluding Mississippi River (V)					Mississippi River (VI)	
	Total	Mermentau River excluding Rio Grande (V-A and V-D)	Rio Grande River			Total	Arkansas River excluding Mississippi River (VI-A and VI-B)
			Total	Below Fort Quitman (V-B)	Above Fort Quitman (V-C)		
WATER DELIVERED PER ACRE							
Organizations reporting NO water from other sources used on same land:							
0.1 to 0.9 acre-feet per acre.....organizations...	73	10	63	9	54	137	43
1.0 to 1.9 acre-feet per acre.....organizations...	325,064	30,933	294,131	97,610	196,521	497,987	71,691
2.0 to 2.9 acre-feet per acre.....organizations...	240	60	181	39	142	487	125
3.0 to 3.9 acre-feet per acre.....organizations...	514,895	29,723	489,351	391,471	97,880	1,354,342	228,481
4.0 to 4.9 acre-feet per acre.....organizations...	238	103	135	22	113	409	94
5.0 to 5.9 acre-feet per acre.....organizations...	307,456	129,165	178,291	48,197	130,094	811,693	122,919
6.0 to 6.9 acre-feet per acre.....organizations...	129	52	77	13	64	299	47
7.0 to 7.9 acre-feet per acre.....organizations...	250,599	165,229	85,370	1,525	83,845	398,489	32,408
8.0 to 8.9 acre-feet per acre.....organizations...	32	16	16	10	155	25	25
9.0 to 9.9 acre-feet per acre.....organizations...	116,437	63,112	53,325	1,620	51,705	179,360	18,543
10.0 or more acre-feet per acre.....organizations...	11	7	4	1	3	103	14
11.0 to 11.9 acre-feet per acre.....organizations...	38,646	36,941	1,705	400	1,305	132,373	2,873
12.0 to 12.9 acre-feet per acre.....organizations...	6	1	5	2	3	66	15
13.0 to 13.9 acre-feet per acre.....organizations...	7,804	3,845	3,959	2,623	1,336	82,340	13,479
14.0 to 14.9 acre-feet per acre.....organizations...	6	2	4	1	3	36	8
15.0 to 15.9 acre-feet per acre.....organizations...	1,900	170	1,730	380	1,350	38,052	1,367
16.0 to 16.9 acre-feet per acre.....organizations...	3	...	3	2	46	10	10
17.0 to 17.9 acre-feet per acre.....organizations...	1,450	...	1,450	300	1,150	41,008	3,415
18.0 to 18.9 acre-feet per acre.....organizations...	3	1	2	2	...	29	7
19.0 to 19.9 acre-feet per acre.....organizations...	475	230	245	245	...	13,744	2,624
SIZE OF ORGANIZATION							
Size of organization (number of farm irrigation water users served directly):							
None.....organizations...	7	...	7	2	5	58	3
1 to 3.....organizations...	495	110	99	13	86	868	152
4 to 9.....organizations...	244	90	154	22	132	2,063	363
10 to 29.....organizations...	1,366	467	899	137	762	3,254	103
30 to 99.....organizations...	173	27	146	26	120	406	86
100 to 299.....organizations...	2,751	444	2,307	471	1,836	6,778	1,436
300 to 999.....organizations...	139	17	123	24	99	300	34
1,000 or more.....organizations...	6,768	933	5,832	1,226	4,666	10,685	1,647
Size of organization (acre-feet of water delivered directly to farms):							
None.....organizations...	7	...	7	2	5	58	3
1 to 299 acre-feet.....organizations...	273	52	221	32	189	360	150
300 to 999 acre-feet.....organizations...	38,713	10,322	28,391	4,229	24,162	55,004	21,001
1,000 to 2,999 acre-feet.....organizations...	278	104	174	19	155	217	107
3,000 to 9,999 acre-feet.....organizations...	150,725	56,731	93,994	9,616	84,378	310,130	62,725
10,000 to 29,999 acre-feet.....organizations...	132	47	86	22	64	623	65
30,000 to 99,999 acre-feet.....organizations...	235,062	89,244	148,662	42,887	105,775	1,109,683	113,906
100,000 or more acre-feet.....organizations...	74	25	49	12	37	435	46
Size of organization (acre-feet of water conveyed):							
None.....organizations...	396,279	131,290	264,989	61,014	203,975	2,352,631	250,752
1 to 299 acre-feet.....organizations...	31	10	21	10	11	169	18
300 to 999 acre-feet.....organizations...	527,878	165,487	362,391	167,084	195,307	2,770,928	299,488
1,000 to 2,999 acre-feet.....organizations...	24	13	11	10	1	95	8
3,000 to 9,999 acre-feet.....organizations...	1,296,283	717,102	579,181	499,479	79,702	2,697,854	374,928
10,000 or more acre-feet.....organizations...	7	3	4	1	3	10	10
Size of organization (acre-feet of water conveyed):							
None.....organizations...	1,013,997	340,828	673,169	113,215	559,954	1,257,897	142,739
1 to 299 acre-feet.....organizations...	5	1	4	1	3	33	2
300 to 999 acre-feet.....organizations...	249	48	201	28	173	297	135
1,000 to 2,999 acre-feet.....organizations...	36,998	9,698	27,260	3,888	23,372	47,523	20,338
3,000 to 9,999 acre-feet.....organizations...	280	106	174	21	153	481	99
10,000 to 29,999 acre-feet.....organizations...	157,518	60,880	96,638	10,973	85,665	294,655	54,975
30,000 to 99,999 acre-feet.....organizations...	131	45	86	16	70	613	79
100,000 or more acre-feet.....organizations...	303,283	157,238	146,045	29,283	116,762	1,123,059	135,162
Size of organization (acre-feet of water conveyed):							
None.....organizations...	85	23	63	17	46	484	49
1 to 299 acre-feet.....organizations...	458,734	120,946	341,967	84,984	256,983	2,689,456	292,252
300 to 999 acre-feet.....organizations...	37	14	23	9	14	213	21
1,000 to 2,999 acre-feet.....organizations...	746,282	337,309	408,973	142,721	266,252	3,685,795	387,117
3,000 to 9,999 acre-feet.....organizations...	29	13	16	14	2	85	10
10,000 or more acre-feet.....organizations...	1,665,049	777,552	887,497	824,550	62,947	4,703,174	577,788
Size of organization (acre-feet of water conveyed):							
None.....organizations...	10	4	6	2	4	21	3
1 to 299 acre-feet.....organizations...	1,888,464	518,664	1,369,800	254,215	1,115,585	4,318,417	499,356

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Summary Table 10 (Part 3 of 3).—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Continued

Mississippi River (VI)—Continued											
Missouri River											
Item (For definitions and explanations, see text)	Total	Below Three Forks, Montana, excluding Platte and Yellow- stone Rivers (VI-C)	Platte River			Yellowstone River			Headwaters above Three Forks, Montana (VI-H)	Rudson Bay (Red River of the North) (VII)	
			Total	Excluding South Platte River (VI-D)	South Platte River above Gaging Station near Paxton (VI-E)	Total	Excluding Big Horn River (VI-F)	Big Horn River (VI-G)			
WATER DELIVERED PER ACRE											
Organizations reporting no water from other sources used on same land:											
0.1 to 0.9 acre-feet per acre.....organizations...	94	22	36	18	31	12	19	5	(D)		
1.0 to 1.9 acre-feet per acre.....organizations...	386,296	85,924	274,629	170,306	104,323	19,981	4,802	15,179	5,762	(D)	
2.0 to 2.9 acre-feet per acre.....organizations...	1,125,861	300,921	715,566	480,451	235,115	97,344	73,486	23,858	12,030	(D)	
3.0 to 3.9 acre-feet per acre.....organizations...	688,774	83,726	290,279	161,805	88,474	320,129	195,606	124,523	34,640	(D)	
4.0 to 4.9 acre-feet per acre.....organizations...	366,081	40,944	77,761	60,998	16,763	223,391	102,504	120,887	23,985	(D)	
5.0 to 5.9 acre-feet per acre.....organizations...	130	11	17	12	5	85	46	39	17	(D)	
6.0 to 6.9 acre-feet per acre.....organizations...	160,817	13,966	17,324	12,134	5,190	114,663	38,998	75,665	14,864	(D)	
7.0 to 7.9 acre-feet per acre.....organizations...	89	3	13	9	4	35	18	17	38	(D)	
8.0 to 8.9 acre-feet per acre.....organizations...	129,500	4,468	14,372	10,430	3,942	79,653	15,401	64,252	31,007	(D)	
9.0 to 9.9 acre-feet per acre.....organizations...	51	3	9	8	1	22	16	6	17	(D)	
10.0 or more acre-feet per acre.....organizations...	68,861	3,005	6,730	6,480	250	50,169	18,768	31,401	8,937	(d)	
0.1 to 0.9 acre-feet per acre.....organizations...	28	1	7	1	...	12	10	2	14	(D)	
1.0 to 1.9 acre-feet per acre.....organizations...	36,685	1,568	1,400	1,400	...	28,037	7,014	21,023	5,680	(D)	
2.0 to 2.9 acre-feet per acre.....organizations...	36	1	7	7	3	16	9	7	12	(D)	
3.0 to 3.9 acre-feet per acre.....organizations...	37,593	900	3,110	2,800	310	26,659	18,409	8,250	6,924	(D)	
4.0 to 4.9 acre-feet per acre.....organizations...	22	1	1	...	1	6	...	...	14	(D)
5.0 to 5.9 acre-feet per acre.....organizations...	11,120	2,650	170	...	170	3,835	3,835	...	4,465	(D)	
SIZE OF ORGANIZATION											
Size of organization (number of farm irrigation water users served directly):											
None.....organizations...	55	10	26	6	20	17	14	3	4	(D)	
1 to 3.....organizations...	716	80	192	135	57	260	166	94	184	(D)	
4 to 9.....organizations...	1,700	189	461	322	619	401	218	431	67	(D)	
10 to 29.....organizations...	476	51	143	48	95	215	142	73	67	(D)	
30 to 99.....organizations...	2,690	281	865	252	613	1,182	784	398	362	(D)	
100 to 299.....organizations...	330	28	168	32	136	92	68	24	42	(D)	
300 to 999.....organizations...	5,342	474	2,754	504	2,250	1,481	1,100	381	639	(D)	
1,000 or more.....organizations...	166	9	21	76	38	24	14	8	8	(D)	
None.....organizations...	9,038	1,199	5,289	1,283	4,006	2,136	1,305	831	414	(D)	
1 to 3.....organizations...	65	8	37	14	24	20	7	13	...	(D)	
4 to 9.....organizations...	10,082	1,203	5,638	2,149	3,657	3,241	1,169	2,072	...	(D)	
10 to 29.....organizations...	19	5	10	5	4	1	3	...	...	(D)
30 to 99.....organizations...	8,313	2,097	4,671	2,651	2,020	1,585	338	1,247	...	(D)	
100 to 299.....organizations...	2	...	2	...	...	...	...	...	...	(D)
300 to 999.....organizations...	3,027	...	3,027	3,027	...	...	...	...	...	(D)
1,000 or more.....organizations...	...	...	...	...	...	...	...	...	...	(D)
Size of organization (acre-feet of water delivered directly to farms):											
None.....organizations...	55	10	24	6	20	17	14	3	4	(D)	
1 to 299 acre-feet.....organizations...	210	33	73	20	53	84	44	40	20	(D)	
300 to 999 acre-feet.....organizations...	34,003	4,719	11,476	3,799	7,677	14,255	7,810	6,445	3,553	(D)	
1,000 to 2,999 acre-feet.....organizations...	410	50	123	47	76	166	118	48	71	(D)	
3,000 to 9,999 acre-feet.....organizations...	247,405	29,178	73,833	27,789	46,044	102,502	74,042	28,460	41,892	(D)	
10,000 to 29,999 acre-feet.....organizations...	558	54	214	92	188	123	86	35	102	(D)	
30,000 to 99,999 acre-feet.....organizations...	995,777	96,017	388,760	168,093	220,667	328,544	221,516	107,028	182,456	(D)	
100,000 or more acre-feet.....organizations...	389	27	163	61	102	121	86	35	98	(D)	
None.....organizations...	2,101,879	138,825	899,919	366,014	533,905	664,317	478,247	186,070	398,818	(D)	
1 to 299 acre-feet.....organizations...	151	22	58	25	40	11	29	11	29	(D)	
300 to 999 acre-feet.....organizations...	2,474,440	455,179	935,489	411,737	523,752	599,103	438,166	160,937	481,669	(D)	
1,000 to 2,999 acre-feet.....organizations...	47	6	16	10	7	24	6	18	1	(D)	
3,000 to 9,999 acre-feet.....organizations...	2,282,925	297,202	786,359	518,175	306,908	1,195,199	272,030	923,169	44,165	(D)	
10,000 to 29,999 acre-feet.....organizations...	9	2	2	...	...	...	...	...	...	(D)
30,000 to 99,999 acre-feet.....organizations...	1,115,118	110,007	260,251	260,251	...	744,860	244,140	500,720	...	(D)	
Size of organization (acre-feet of water conveyed):											
None.....organizations...	31	9	11	5	8	9	8	1	2	(D)	
1 to 299 acre-feet.....organizations...	162	27	55	14	41	65	34	31	15	(D)	
300 to 999 acre-feet.....organizations...	27,195	3,807	9,753	2,921	6,832	11,018	6,063	4,955	2,617	(D)	
1,000 to 2,999 acre-feet.....organizations...	382	45	113	44	69	161	112	49	63	(D)	
3,000 to 9,999 acre-feet.....organizations...	239,680	26,999	69,192	26,002	43,190	104,190	70,615	33,383	39,291	(D)	
10,000 to 29,999 acre-feet.....organizations...	534	52	196	84	112	186	120	66	100	(D)	
30,000 to 99,999 acre-feet.....organizations...	987,897	92,347	358,360	156,634	201,726	343,307	218,570	124,737	193,883	(D)	
100,000 or more acre-feet.....organizations...	435	33	186	68	118	133	95	38	83	(D)	
None.....organizations...	2,397,204	159,657	1,025,572	391,937	633,635	749,763	523,489	226,274	462,212	(D)	
1 to 299 acre-feet.....organizations...	192	25	75	31	42	60	43	17	34	(D)	
300 to 999 acre-feet.....organizations...	3,298,678	481,718	1,270,245	535,198	735,047	978,562	689,662	288,900	568,153	(D)	
1,000 to 2,999 acre-feet.....organizations...	75	13	31	11	21	23	7	7	8	(D)	
3,000 to 9,999 acre-feet.....organizations...	4,133,436	680,747	1,665,154	991,565	1,198,599	1,397,161	388,385	1,008,776	390,374	(D)	
10,000 to 29,999 acre-feet.....organizations...	18	1	8	6	2	9	3	6	...	(D)	
30,000 to 99,999 acre-feet.....organizations...	3,859,061	390,911	1,784,910	1,414,990	369,920	1,683,240	525,965	1,157,275	...	(D)	

D Data not shown to avoid disclosure of information for individual organizations.

IRRIGATION OF AGRICULTURAL LANDS

Summary Table 11.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS,
BY STATES: CENSUSES OF 1959 AND 1950

	Item (For definitions and explanations, see text)	18 State total	Arizona	California	Colorado	Idaho	Kansas and Oklahoma	Louisiana	Montana	Nebraska
1	Total acres irrigated in Census year.....1959...	31,222,967	1,152,450	7,395,570	2,684,757	2,576,580	959,733	484,850	1,874,530	2,077,926
2	.....1949...	25,451,176	979,114	6,598,839	2,943,895	2,167,879	185,201	597,966	1,808,576	887,239
3	Irrigation organizations.....organizations 1959...	8,749	155	1,075	1,933	927	16	203	1,050	68
4	.....1949...	10,491	163	1,506	2,302	1,064	13	321	1,234	68
5	Service area, 1959: Farm area reported served by organizations.....acres 1959...	21,165,254	766,448	5,293,986	3,040,053	2,482,113	155,047	297,471	1,642,968	858,969
6	Farm area reported irrigated by organizations.....acres 1959...	17,700,841	643,846	4,184,482	2,669,677	2,299,457	106,468	185,539	1,347,197	706,339
7	Water users served, total.....water users 1959...	1,612,111	43,729	1,152,970	43,642	81,467	1,105	2,946	17,181	9,259
8	Farm irrigation water users.....water users 1959...	383,654	12,555	116,037	35,051	43,525	1,104	2,946	14,773	9,225
9	Residential water users.....water users 1959...	1,204,339	27,727	1,018,384	8,449	37,743	...	...	2,395	34
10	Other water users.....water users 1959...	24,118	3,447	18,549	142	199	1	...	13	...
	LAND IRRIGATED BY SOURCE OF WATER, 1959									
11	Ground water sources.....acres...	14,011,307	772,353	3,992,290	500,174	452,876	823,171	263,482	34,015	1,445,029
12	Surface water sources.....acres...	17,211,660	380,097	3,402,780	2,184,583	2,123,704	136,562	221,368	1,840,505	632,897
	WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959									
13	Total entering conveyance systems in basin.....organizations... .....acre-feet...	8,668 72,997,259	155 3,558,266	1,066 17,321,855	1,906 7,705,684	920 14,214,626	14 237,995	203 617,850	1,044 5,973,077	68 2,006,735
15	From another drainage basin.....organizations... .....acre-feet...	...	1 299,479	2 387,033	1 4,038	11 140,305	1 31,047	...	3 2,786	5 550,515
17	From drainage basin number.....D. B. No....	...	...	...	...	...	...	...	...	...
18	From natural sources within basin.....organizations... .....acre-feet...	7,994 72,997,259	146 3,258,787	968 16,934,822	1,701 7,701,646	783 14,074,321	14 206,948	203 617,850	1,017 5,970,291	62 1,456,220
20	Surface water.....organizations... .....acre-feet...	6,984 68,685,789	117 1,991,449	364 15,276,039	1,692 7,670,472	734 13,527,060	14 206,948	68 516,572	1,005 5,922,639	62 1,452,443
22	Ground water.....organizations... .....acre-feet...	1,266 4,311,470	63 1,267,338	688 1,658,783	24 31,174	69 547,261	...	148 101,278	19 47,652	1 3,777
24	From other organizations in the basin.....organizations receiving... .....acre-feet...	1,123 18,644,449	14 1,003,876	219 11,546,796	295 1,432,394	191 2,511,850	1 55,294	...	41 261,813	4 87,111
26	Total leaving conveyance systems.....organizations... .....acre-feet...	8,668 72,997,259	155 3,558,266	1,066 17,321,855	1,906 7,705,684	920 14,214,626	14 237,995	203 617,850	1,044 5,973,077	68 2,006,735
28	Conveyance loss in basin.....organizations... .....acre-feet...	7,238 15,847,148	148 925,506	436 3,412,068	1,767 1,433,931	841 2,948,184	12 71,773	170 50,046	999 1,484,101	67 879,994
30	Conveyed to another drainage basin.....organizations... .....acre-feet...	...	1 7,940	2 302,779	4 15,427	12 145,697	...	...	1 100,000	1 31,047
32	To drainage basin number.....D. B. No....	...	...	...	...	...	...	...	...	...
33	Delivered for use in the basin.....organizations... .....acre-feet...	8,604 57,150,111	153 2,624,820	1,046 13,607,008	1,893 6,256,326	911 11,120,785	13 166,222	203 567,804	1,041 4,388,976	66 1,095,694
35	To farm irrigation water users.....organizations... .....acre-feet...	8,585 54,471,479	153 2,487,199	1,039 12,350,452	1,888 5,943,099	911 10,884,661	13 162,301	203 567,804	1,041 4,333,721	66 1,095,537
37	To residential water users.....organizations... .....acre-feet...	998 1,607,639	24 69,516	237 828,036	130 167,474	107 220,313	...	...	30 42,141	1 157
39	For other use.....organizations... .....acre-feet...	296 1,070,993	10 68,105	83 428,520	50 145,753	29 15,811	1 3,921	...	9 13,114	...
41	Delivered to other irrigation organizations.....organizations delivering... .....acre-feet...	444 18,644,449	5 1,003,876	96 11,546,796	118 1,432,394	76 2,511,850	1 55,294	...	26 261,813	4 87,111
43	Average delivery of irrigation water per acre irrigated as reported by organizations.....acre-feet...	3.1	3.9	3.0	2.2	4.7	1.5	3.1	3.2	1.6
	NEW CAPITAL INVESTMENT, 1950-1959									
44	Expenditures for additional new works and equipment for irrigation and drainage, Jan. 1, 1950-Dec. 31, 1959.....organizations...dollars...	4,177 1,039,993,875	76 62,924,613	487 495,970,922	903 59,837,605	382 24,527,859	11 42,311,394	109 2,054,686	534 24,240,701	43 13,839,550

SUMMARY

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Summary Table 11.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS,
BY STATES: CENSUSES OF 1959 AND 1950—Continued

	Item (For definitions and explanations, see text)	Nevada	New Mexico	North Dakota	Oregon	South Dakota	Texas	Utah	Washington	Wyoming
1	Total acres irrigated in Census year.....1959...	542,976	731,835	47,656	1,384,284	115,629	5,655,638	1,061,683	1,006,969	1,469,911
2	.....1949...	722,896	691,476	35,759	1,337,517	84,356	3,150,527	1,166,972	618,129	1,474,835
3	Irrigation organizations.....organizations 1959...	116	447	12	650	25	103	984	350	686
4	.....1949...	157	620	6	755	24	122	1,058	441	693
5	Service area, 1959: Farm area reported served by organizations.....acres 1959...	312,290	462,200	44,958	903,222	89,454	1,399,753	1,300,483	948,932	1,166,907
6	Farm area reported irrigated by organizations.....acres 1959...	263,005	366,086	39,849	846,182	83,984	943,818	1,109,620	847,752	1,057,540
7	Water users served, total.....water users 1959...	3,059	23,768	234	33,437	759	33,827	90,952	63,429	10,347
8	Farm irrigation water users.....water users 1959...	2,646	20,828	234	17,712	715	24,588	43,001	29,752	8,962
9	Residential water users.....water users 1959...	408	2,910	...	14,690	44	9,124	47,519	33,539	1,373
10	Other water users.....water users 1959...	5	30	...	1,035	...	115	432	138	12
11	LAND IRRIGATED BY SOURCE OF WATER, 1959 Ground water sources.....acres...	102,735	445,652	973	198,941	18,999	4,634,135	157,999	133,903	34,120
12	Surface water sources.....acres...	440,241	286,183	46,683	1,185,343	96,670	1,021,503	903,684	873,066	1,435,791
13	WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959 Total entering conveyance systems in basin.....organizations... acre-feet...	115 1,068,254	446 1,419,633	9 108,726	646 4,182,706	24 169,283	103 2,671,746	978 3,648,089	347 4,922,092	675 4,900,254
14	From another drainage basin.....organizations... acre-feet...	2 11,240	2 1,903	1 100,000	3 28,647	1 3,200	...	11 91,394	...	3 10,320
15	From drainage basin number.....D. B. No....	...	...	...	...	...	...	...	...	...
16	From natural sources within basin.....organizations... acre-feet...	87 1,057,014	437 1,417,730	9 8,724	642 4,154,059	23 166,083	92 2,671,746	863 3,556,695	322 4,854,389	638 4,889,934
17	Surface water.....organizations... acre-feet...	81 1,026,055	428 1,372,752	9 8,724	631 3,891,300	23 166,083	80 2,638,564	754 3,401,225	303 4,733,940	632 4,883,524
18	Ground water.....organizations... acre-feet...	7 30,959	26 44,978	...	18 262,759	...	19 33,182	152 155,470	27 120,449	7 6,410
19	From other organizations in the basin.....organizations receiving... acre-feet...	27 189,781	18 39,971	...	19 278,847	...	19 100,899	179 557,722	34 62,388	62 515,707
20	Total leaving conveyance systems.....organizations... acre-feet...	115 1,068,254	446 1,419,633	9 108,724	646 4,182,706	24 169,283	103 2,671,746	978 3,648,089	347 4,922,092	675 4,900,254
21	Conveyance loss in basin.....organizations... acre-feet...	107 206,933	423 492,142	5 36,802	499 730,281	20 69,485	80 470,139	808 466,721	261 1,153,487	653 1,015,555
22	Conveyed to another drainage basin.....organizations... acre-feet...	2 25,999	...	...	4 503,598	...	...	5 13,355	1 4,364	15 579,444
23	To drainage basin number.....D. B. No....	...	...	...	...	...	...	...	...	...
24	Delivered for use in the basin.....organizations... acre-feet...	113 835,322	446 927,491	9 71,922	645 2,948,827	24 99,798	103 2,201,607	970 3,168,013	346 3,764,241	659 3,305,255
25	To farm irrigation water users.....organizations... acre-feet...	113 824,592	445 900,617	9 71,922	645 2,885,053	24 99,088	102 1,933,755	965 2,956,192	345 3,697,304	659 3,278,182
26	To residential water users.....organizations... acre-feet...	11 1,899	76 15,845	...	44 31,413	4 710	16 42,268	245 132,501	45 37,836	29 17,530
27	For other use.....organizations... acre-feet...	3 8,831	13 11,029	...	14 32,361	...	24 225,584	30 79,320	21 29,101	9 9,543
28	Delivered to other irrigation organizations.....organizations delivering... acre-feet...	3 189,781	12 39,971	...	11 278,847	...	9 100,899	52 557,722	10 62,388	25 515,707
29	Average delivery of irrigation water per acre irrigated as reported by organizations...acre-feet...	3.1	2.5	1.8	3.4	1.2	2.0	2.7	4.4	3.1
30	NEW CAPITAL INVESTMENT, 1950-1959 Expenditures for additional new works and equipment for irrigation and drainage, Jan. 1, 1950-Dec. 31, 1959.....organizations... dollars...	51 1,059,001	212 13,666,262	5 613,767	277 9,388,868	16 3,934,876	50 16,733,025	564 38,346,259	117 200,768,354	379 29,176,133

IRRIGATION OF AGRICULTURAL LANDS

Summary Table 12.—LAND IRRIGATED BY SOURCE OF WATER, BY STATES: CENSUS OF 1959

	Item (For definitions and explanations, see text)	18 States, total	Arizona	California	Colorado	Idaho	Kansas and Oklahoma	Louisiana	Montana	Nebraska
1	Total acres irrigated.....farms reporting...	267,431	5,391	74,138	20,312	25,383	7,073	4,817	11,935	18,936
2	acres...	31,222,967	1,152,430	7,395,970	2,684,797	2,576,580	959,733	484,850	1,874,520	2,077,926
3	Acres irrigated by sprinklers.....farms reporting...	54,997	113	18,378	1,088	2,180	2,611	166	1,376	3,755
4	acres...	2,817,283	4,635	838,547	52,808	215,595	142,558	4,419	67,745	226,468
5	Sprinklers only.....farms reporting...	41,103	73	14,160	432	1,085	2,172	150	741	2,005
6	acres...	1,959,259	3,197	478,278	24,668	119,943	120,214	4,052	35,916	197,329
LAND IRRIGATED, BY SOURCE OF WATER TO INDIVIDUAL FARMS, 1959										
7	Ground water sources on farm.....farms reporting...	107,021	2,159	40,393	4,884	2,557	5,426	3,047	537	14,093
8	acres...	13,243,912	581,238	3,644,279	495,814	386,945	823,171	245,662	30,791	1,445,029
9	Ground water sources on farm only.....farms reporting...	79,869	1,499	26,023	1,632	1,266	5,087	2,672	300	12,461
10	acres...	10,549,815	408,794	2,248,970	193,403	241,673	783,326	209,972	14,148	1,304,336
11	Surface sources on farm.....farms reporting...	38,797	300	5,552	3,533	2,749	1,213	1,058	4,771	1,703
12	acres...	5,081,290	94,845	836,452	617,711	327,281	56,331	130,478	909,901	99,136
13	Surface sources on farm only.....farms reporting...	29,356	210	3,541	2,457	1,882	1,022	792	4,055	1,089
14	acres...	4,050,182	85,836	574,507	508,669	245,191	47,631	105,718	795,971	69,774
15	Irrigation organization sources.....farms reporting...	153,704	3,608	43,295	15,971	22,051	803	1,198	7,452	4,841
16	acres...	12,897,805	476,367	2,914,839	1,571,232	1,862,354	80,231	108,710	933,828	533,761
17	Irrigation organization sources only.....farms reporting...	126,650	3,007	29,634	12,280	20,306	596	888	6,753	3,702
18	acres...	10,285,737	332,151	1,865,635	1,182,723	1,662,383	52,798	81,305	836,876	416,847
19	Both farm ground water sources and surface sources.....farms reporting...	4,454	73	1,265	252	178	161	156	126	544
20	acres...	999,317	28,499	308,394	61,553	40,483	18,564	33,597	38,567	72,256
21	Both irrigation organization and farm ground water or farm surface sources.....farms reporting...	27,102	602	13,675	3,691	1,751	207	309	701	1,140
22	acres...	5,337,916	297,170	2,398,064	738,409	386,850	57,414	54,258	189,358	214,713

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Summary Table 12.—LAND IRRIGATED BY SOURCE OF WATER, BY STATES: CENSUS OF 1959—Continued

Item (For definitions and explanations, see text)		Nevada	New Mexico	North Dakota	Oregon	South Dakota	Texas	Utah	Washington	Wyoming
1	Total acres irrigated.....farms reporting...	2,110	8,850	471	17,724	1,002	27,884	15,701	19,292	6,412
2	acres...	542,976	731,835	47,656	1,384,284	115,629	5,655,638	1,061,683	1,006,969	1,469,911
3	Acres irrigated by sprinklers.....farms reporting...	91	158	101	8,954	239	4,564	409	10,481	293
4	acres...	4,473	18,988	3,880	283,506	20,906	554,641	18,421	342,665	17,028
5	Sprinklers only.....farms reporting...	37	85	83	7,747	194	3,919	118	7,991	111
6	acres...	2,015	12,754	3,263	234,031	18,032	479,965	6,438	251,603	7,601
LAND IRRIGATED, BY SOURCE OF WATER TO INDIVIDUAL FARMS, 1959										
7	Ground water sources on farm.....farms reporting...	492	3,357	25	4,097	191	19,847	1,667	3,911	338
8	acres...	100,609	439,163	973	151,486	18,959	4,614,720	113,417	118,157	33,499
9	Ground water sources on farm only.....farms reporting...	312	2,507	24	3,208	168	18,843	689	3,020	158
10	acres...	64,995	392,498	943	99,340	17,056	4,407,221	61,165	83,158	18,817
11	Surface sources on farm.....farms reporting...	480	1,282	156	6,551	300	2,031	1,145	3,760	2,213
12	acres...	199,313	56,635	9,799	561,303	24,424	202,335	88,502	143,671	723,133
13	Surface sources on farm only.....farms reporting...	362	1,136	151	5,596	252	1,366	519	3,039	1,887
14	acres...	143,761	40,627	9,145	465,244	21,947	140,545	50,387	106,756	638,873
15	Irrigation organization sources.....farms reporting...	1,350	5,100	295	8,445	571	7,117	14,428	12,900	4,279
16	acres...	243,054	236,037	36,884	671,495	72,246	838,583	859,764	745,141	713,279
17	Irrigation organization sources only.....farms reporting...	1,223	4,321	290	7,591	523	6,568	13,038	12,004	3,926
18	acres...	214,235	165,639	36,017	565,506	65,823	734,777	760,042	683,565	629,415
19	Both farm ground water sources and surface sources.....farms reporting...	84	104	1	472	11	554	64	332	77
20	acres...	58,014	23,084	45	64,334	1,582	190,977	8,519	27,551	23,298
21	Both irrigation organization and farm ground water or farm surface sources.....farms reporting...	129	782	5	857	48	553	1,391	897	364
22	acres...	61,971	109,987	1,506	189,860	9,221	182,118	181,570	105,939	159,508

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Summary Table 13.—ORGANIZATIONS REPORTING, QUANTITIES OF IRRIGATION WATER OBTAINED FROM SPECIFIED SOURCES, AND WATER LOST IN CONVEYANCE: 1959 AND 1949

[For 1949 the amounts of water are for the entire organization, and for 1959 the amounts are for the part within the State only. See text.]

State	Water obtained from—											
	All sources				Surface sources				Ground sources			
	Organizations reporting		Acre-feet		Organizations reporting		Acre-feet		Organizations reporting		Acre-feet	
	1959	1949	1959	1949	1959	1949	1959	1949	1959	1949	1959	1949
18 States, total...	8,668	9,566	91,641,708	96,013,034	6,984	7,214	68,685,789	72,664,954	1,266	1,393	4,311,470	2,618,028
Arizona.....	155	150	4,562,142	3,754,337	117	109	1,991,449	1,777,046	63	57	1,267,338	1,104,882
California.....	1,066	1,301	28,868,651	24,361,853	364	308	15,276,039	18,528,632	688	974	1,658,783	1,168,621
Colorado.....	1,906	2,201	9,138,078	10,795,335	1,632	1,792	7,670,472	9,074,298	24	7	31,174	7,761
Idaho.....	920	957	16,726,476	22,226,161	734	709	13,527,060	14,411,794	69	38	547,261	126,704
Kansas and Oklahoma....	14	12	293,289	126,183	14	11	206,948	125,273	...	1	...	810
Louisiana.....	203	312	617,850	571,543	68	101	516,572	438,813	148	234	101,278	132,230
Montana.....	1,044	998	6,234,890	5,650,173	1,005	938	5,922,639	5,184,577	19	2	47,652	1,575
Nebraska.....	68	65	2,093,846	3,879,942	62	61	1,452,443	2,872,477	1	1	3,777	500
Nevada.....	115	157	1,258,035	1,578,171	81	105	1,026,055	1,190,540	7	1	30,959	26
New Mexico.....	446	599	1,459,604	2,177,754	428	573	1,372,752	2,032,115	26	6	44,978	21,072
North Dakota.....	9	5	108,724	288,727	9	5	8,724	288,727	...	...	...	...
Oregon.....	646	616	4,461,553	5,227,894	631	590	3,891,300	3,768,532	18	9	262,759	2,858
South Dakota.....	24	20	169,283	183,231	23	20	166,083	182,611	...	...	...	...
Texas.....	103	112	2,772,645	4,522,891	80	75	2,638,564	4,249,663	19	23	33,182	30,053
Utah.....	978	1,034	4,205,811	5,408,782	754	892	3,401,225	4,326,325	152	26	155,470	12,396
Washington.....	347	398	4,984,480	5,277,580	303	333	4,733,940	3,314,919	27	17	120,449	24,864
Wyoming.....	675	683	5,415,961	8,478,688	632	640	4,883,524	7,288,296	7	2	6,410	1,834

State	Water obtained from—Continued				Water obtained from other States, 1959 (acre-feet)	Water lost in conveyance			
	Other organizations					Organizations reporting		Acre-feet	
	Organizations reporting		Acre-feet			1959	1949	1959	1949
	1959	1949	1959	1949					
18 States, total...	1,123	1,937	18,644,449	20,730,052	xxx	7,238	8,025	15,847,148	18,398,178
Arizona.....	14	10	1,003,876	872,409	299,479	148	144	925,506	1,051,214
California.....	219	172	11,546,796	4,664,600	387,033	436	431	3,412,068	4,889,211
Colorado.....	295	630	1,432,394	1,713,276	4,038	1,767	2,060	1,433,931	1,906,935
Idaho.....	191	348	2,511,850	7,687,663	140,305	841	893	2,948,184	3,687,358
Kansas and Oklahoma....	1	1	55,294	100	31,047	12	11	71,773	22,769
Louisiana.....	...	1	...	500	...	170	309	50,046	48,273
Montana.....	41	128	261,813	464,021	2,786	979	954	1,484,101	1,365,610
Nebraska.....	4	19	87,111	1,006,965	550,515	67	65	879,994	1,125,438
Nevada.....	27	79	189,781	387,605	11,240	107	136	206,933	261,314
New Mexico.....	18	26	39,971	124,567	1,903	423	596	492,142	612,425
North Dakota.....	...	...	...	...	100,000	5	4	36,802	120,975
Oregon.....	19	46	278,847	1,456,504	28,647	499	413	730,281	1,243,956
South Dakota.....	...	1	...	620	3,200	20	13	69,485	75,559
Texas.....	19	23	100,899	243,175	...	80	106	470,139	846,298
Utah.....	179	285	557,722	1,070,061	91,394	808	933	466,721	890,687
Washington.....	34	64	62,388	1,937,797	67,703	261	354	1,153,487	656,828
Wyoming.....	62	118	515,707	1,188,558	10,320	653	656	1,015,555	1,654,100

Summary Table 14.—CAPITAL INVESTMENT IN IRRIGATION ORGANIZATIONS, 1959, 1950, AND 1940; AND NEW CAPITAL INVESTMENT, 1940 TO 1959

[Interstate organizations are counted once in each State; but only once in 18 States total. See text.]

State	Total capital investment							
	1959 (dollars)	1950 (dollars)	1940 (dollars)	Percent increase		Percent distribution		
				1950 to 1959	1940 to 1950	1959	1950	1940
18 States, total....	2,424,153,295	1,384,564,420	864,611,471	75.0	60.1	100.0	100.0	100.0
Arizona.....	167,649,244	104,724,631	77,859,230	60.0	34.5	6.9	7.6	9.0
California.....	898,382,434	402,411,512	209,207,034	123.2	92.3	37.1	29.1	24.2
Colorado.....	204,536,933	144,704,328	95,501,039	41.3	51.5	8.4	10.4	11.0
Idaho.....	147,842,532	123,314,673	99,663,601	19.8	23.7	6.1	8.9	11.5
Kansas and Oklahoma....	55,165,573	12,854,179	750,784	329.1	1,612.1	2.3	1.0	0.1
Louisiana.....	10,820,903	8,766,217	5,766,385	23.4	52.0	0.5	0.6	0.7
Montana.....	96,265,070	72,024,369	61,113,972	33.6	17.8	4.0	5.2	7.1
Nebraska.....	55,813,886	41,974,336	36,088,721	32.9	16.3	2.3	3.0	4.2
Nevada.....	17,151,395	16,092,394	14,555,895	6.5	10.5	0.7	1.2	1.7
New Mexico.....	59,112,930	45,446,668	28,204,839	30.0	61.1	2.4	3.3	3.3
North Dakota.....	3,466,553	2,852,786	1,700,757	21.5	67.7	0.1	0.2	0.2
Oregon.....	70,576,455	60,987,587	45,368,352	15.7	34.4	2.9	4.4	5.2
South Dakota.....	9,896,475	5,961,599	5,154,671	66.0	15.6	0.4	0.4	0.6
Texas.....	87,629,785	70,896,760	57,336,360	23.6	23.6	3.6	5.1	6.6
Utah.....	91,506,998	53,160,739	40,468,053	72.1	31.3	3.8	3.8	4.7
Washington.....	369,453,349	168,684,995	52,168,499	119.0	223.3	15.2	12.2	6.0
Wyoming.....	78,882,780	49,706,647	33,703,279	58.6	47.4	3.3	3.6	3.9

State	Average capital investment (dollars)									New capital investment			
	Per organization			Per irrigated farm			Per acre of irrigated land			Jan. 1, 1950 to Dec. 31, 1959		Jan. 1, 1940 to Dec. 31, 1949	
	1959	1950	1940	1959	1950	1940	1959	1950	1940	Organizations reporting	Amount (dollars)	Organizations reporting	Amount (dollars)
18 States, total....	277,077	131,976	154,865	6,319	5,537	2,543	137	92	53	4,177	1,039,593,875	5,155	519,952,949
Arizona.....	1,081,608	642,482	755,914	13,353	12,089	9,126	260	188	134	76	62,924,613	111	26,865,401
California.....	835,704	267,205	322,962	7,742	6,332	4,590	214	128	66	487	495,970,922	711	193,204,478
Colorado.....	105,813	62,860	112,619	5,835	4,860	4,361	76	60	34	903	59,837,605	990	49,203,289
Idaho.....	159,592	115,897	206,770	3,396	4,087	3,725	64	65	35	382	24,527,859	441	23,651,072
Kansas and Oklahoma....	3,447,848	988,788	183,118	49,969	22,751	1,060	518	464	17	11	42,311,394	4	12,103,395
Louisiana.....	53,304	27,309	178,902	3,673	2,754	1,408	58	34	32	109	2,054,686	266	2,999,832
Montana.....	91,681	58,366	141,467	6,516	5,735	5,897	71	63	58	514	24,240,701	561	10,910,397
Nebraska.....	820,792	617,269	372,048	6,050	7,428	8,406	79	83	56	43	13,839,550	24	5,885,615
Nevada.....	147,856	102,499	142,704	6,482	7,450	7,653	65	57	38	51	1,059,001	87	1,536,499
New Mexico.....	132,243	73,301	57,796	2,838	2,843	2,044	161	121	70	212	13,666,262	324	17,241,829
North Dakota.....	288,879	475,464	103,827	14,814	10,225	4,128	86	104	88	5	613,767	4	1,152,029
Oregon.....	108,579	80,778	169,284	3,984	4,653	4,303	83	83	76	277	9,588,868	305	15,619,235
South Dakota.....	395,859	248,399	125,723	13,841	9,243	7,023	117	88	104	16	3,934,876	9	806,928
Texas.....	850,774	581,120	494,278	3,563	6,099	3,665	92	68	81	50	16,733,025	81	13,560,400
Utah.....	92,994	50,340	49,231	2,128	1,945	1,924	82	51	29	564	38,346,259	509	12,692,686
Washington.....	1,055,580	382,505	212,067	12,417	9,760	3,850	435	328	76	117	200,768,354	200	116,516,496
Wyoming.....	114,989	71,726	138,696	8,801	6,608	6,133	74	60	45	379	29,176,133	344	16,003,368

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Summary Table 15.—ORGANIZATIONS REPORTING BY TYPE OF SERVICE TO WATER USERS AND ACRE-FEET DELIVERED: 1959

[Interstate organizations are counted once in each State, but only once in 18 States total. See text.]

State	Water delivered to farm users and residential users only		Water delivered to farm users, residential users, and other organizations		Water delivered to other organizations only	
	Organizations reporting	Acre-feet of water	Organizations reporting	Acre-feet of water	Organizations reporting	Acre-feet of water
18 States, total.....	8,216	40,587,141	379	24,239,440	67	9,896,986
Arizona.....	149	1,532,770	4	1,155,194	2	872,627
California.....	964	8,338,192	77	8,384,379	23	8,002,713
Colorado.....	1,788	4,404,077	103	2,679,530	15	459,360
Idaho.....	843	6,851,429	69	6,590,821	9	174,574
Kansas and Oklahoma.....	13	162,301	...	...	1	55,294
Louisiana.....	203	567,804	...	...	...	...
Montana.....	1,018	3,923,717	26	713,958	...	...
Nebraska.....	62	783,306	5	389,121	1	10,378
Nevada.....	112	794,107	2	204,561	1	17,604
New Mexico.....	433	730,403	13	226,030	...	...
North Dakota.....	9	71,922	...	...	...	...
Oregon.....	633	2,110,846	12	1,067,142	1	17,325
South Dakota.....	24	99,798	...	...	...	...
Texas.....	94	1,589,954	8	451,141	1	35,827
Utah.....	925	2,359,099	44	1,114,898	8	172,418
Washington.....	337	3,464,740	8	308,181	2	24,607
Wyoming.....	647	2,802,676	19	954,484	6	54,259

Summary Table 16.—NUMBER OF ORGANIZATIONS CLASSIFIED BY NUMBER OF FARMS PROVIDED WITH WATER: 1959 AND 1949

[Interstate organizations are counted once in each State, only once in the 18 States total. Interstate organizations are counted in groups provided with irrigation water for the entire organization. See text.]

State	Total number of organizations		Organizations providing irrigation water directly to ¹ —															
			No farms		1-3 farms		4-9 farms		10-29 farms		30-99 farms		100-299 farms		300-999 farms		1,000 or more farms	
	1959	1949	1959	1949	1959	1949	1959	1949	1959	1949	1959	1949	1959	1949	1959	1949	1959	1949
18 States, total.....	8,749	10,491	164	342	2,811	3,780	2,459	2,954	1,754	2,075	972	941	369	267	168	102	52	30
Arizona.....	155	163	2	4	25	38	32	23	34	41	39	44	16	9	5	3	2	1
California.....	1,075	1,506	35	45	227	394	277	441	245	351	147	169	80	61	49	32	15	13
Colorado.....	1,933	2,302	45	133	810	934	540	663	348	385	151	150	51	28	16	8	2	1
Idaho.....	927	1,064	15	27	249	365	268	287	227	236	106	102	38	31	15	10	9	6
Kansas and Oklahoma.....	16	13	3	...	...	1	1	4	5	3	4	4	2	1	1	...	...	...
Louisiana.....	203	321	...	1	99	156	78	109	13	37	9	16	1	1	3	1	...	...
Montana.....	1,050	1,234	9	46	519	695	303	312	132	114	62	50	19	9	5	7	1	1
Nebraska.....	68	68	1	2	6	7	6	8	16	17	18	18	13	10	6	5	2	1
Nevada.....	116	157	2	5	31	64	42	42	25	31	12	12	3	2	1	1	...	...
New Mexico.....	447	620	2	6	61	97	88	175	162	237	107	89	21	11	3	3	3	2
North Dakota.....	12	6	2	...	1	...	2	2	4	1	1	2	...	...	1	1	...	...
Oregon.....	650	755	5	14	220	324	250	261	104	99	44	29	11	18	13	8	3	2
South Dakota.....	25	24	1	1	5	5	9	10	6	6	2	1	1	...	1	1	...	...
Texas.....	103	122	1	5	15	23	21	31	23	21	17	21	13	10	4	8	9	3
Utah.....	984	1,058	17	28	134	179	264	280	286	341	178	169	74	53	31	8	...	...
Washington.....	350	441	5	6	105	137	84	144	70	79	47	47	18	17	13	8	8	3
Wyoming.....	686	693	20	19	307	362	202	174	104	94	34	29	13	11	5	3	1	1

¹For 1959, the data are for the number of farm water users. See text.

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Summary Table 17 (Part 1 of 3).—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY STATES: CENSUSES OF 1959 AND 1950

Item (For definitions and explanations, see text)	18 States, total	Arizona	California	Colorado	Idaho	Kansas and Oklahoma	Louisiana	Montana	Nebraska
1 Irrigation organizations, total									
2 number.....organizations 1959...	8,749	155	1,075	1,933	927	16	203	1,050	68
1949...	10,491	163	1,506	2,302	1,064	13	321	1,234	68
3 Area irrigated as reported by									
4 organizations.....acres 1959...	17,700,841	643,846	4,184,482	2,669,677	2,299,477	106,468	185,539	1,347,197	706,339
1949...	14,974,785	555,958	3,135,281	2,399,618	1,896,032	78,189	260,897	1,149,358	508,161
5 Farm water users served directly....water users 1959...	383,654	12,555	116,037	35,051	43,525	1,104	2,946	14,773	9,225
6 Total water conveyed.....acre-feet 1959...	91,641,708	4,562,142	28,868,651	9,138,078	16,726,476	293,689	617,850	6,234,890	2,093,846
TYPE OF ORGANIZATION									
7 Mutual:									
8 Unincorporated.....organizations 1959...	4,989	42	384	1,261	497	2	37	787	9
1949...	6,464	61	709	1,579	648	4	47	994	11
10 Farm area irrigated directly.....acres 1959...	2,067,317	17,583	75,038	543,826	211,622	(D)	(D)	362,973	(D)
11 Farm water users served									
12 directly.....water users 1959...	32,360	587	2,074	6,071	2,589	(D)	(D)	3,227	(D)
13 Total water conveyed.....acre-feet 1959...	8,395,862	80,205	359,229	2,139,798	1,035,785	(D)	(D)	1,778,459	(D)
14 Incorporated.....organizations 1959...	2,737	34	432	642	367	8	1	203	17
15 1949...	2,884	37	561	686	348	8	4	158	15
16 Farm area irrigated directly.....acres 1959...	6,732,753	308,784	1,035,041	1,938,870	1,295,602	45,774	(D)	491,189	64,742
17 Farm water users served									
18 directly.....water users 1959...	129,375	5,802	22,005	25,943	20,969	307	(D)	5,126	791
19 Total water conveyed.....acre-feet 1959...	29,975,566	1,835,551	3,129,996	6,234,031	10,150,336	117,634	(D)	2,692,345	166,546
20 District.....organizations 1959...	558	15	173	14	53	2	...	35	40
21 1949...	483	12	114	20	54	...	...	39	39
22 Farm area irrigated directly.....acres 1959...	6,920,327	187,068	2,836,277	161,657	676,471	(D)	...	309,869	600,265
23 Farm water users served									
24 directly.....water users 1959...	178,619	1,636	82,983	2,404	18,136	(D)	...	3,662	7,861
25 Total water conveyed.....acre-feet 1959...	32,948,641	1,033,978	15,108,773	345,653	5,021,538	(D)	...	1,085,931	1,844,094
26 U. S. Bureau of Reclamation; projects and stor-									
27 age systems operated by bureau...organizations 1959...	54	2	13	6	4	4	...	4	...
28 1949...	37	2	6	4	4	1	...	3	2
29 Farm area irrigated directly.....acres 1959...	710,904	3,082	26,255	...	76,767	6,470	...	6,887	...
30 Farm water users served									
31 directly.....water users 1959...	14,748	92	473	...	714	120	...	68	...
32 Total water conveyed.....acre-feet 1959...	13,144,829	699,904	8,522,360	268,380	253,019	75,140	...	72,302	...
33 U. S. Bureau of Reclamation; operated									
34 by water users organizations 1949...	147	5	29	6	12	2	...	15	9
35 1949...	NA	...	...	4	11	1	...	16	3
36 Farm area irrigated directly.....acres 1959...	3,301,541	312,389	845,029	109,440	350,674	(D)	...	238,790	240,028
37 Farm water users served									
38 directly.....water users 1959...	62,998	4,507	12,466	2,707	8,836	(D)	...	2,034	3,324
39 Total water conveyed.....acre-feet 1959...	19,335,011	2,084,486	6,639,274	871,054	2,758,367	(D)	...	847,937	822,089
40 U. S. Bureau of Indian Affairs.....organizations 1959...	123	59	7	2	3	...	...	17	...
41 1949...	141	48	14	1	6	...	...	...	...
42 Farm area irrigated directly.....acres 1959...	578,635	125,574	3,354	9,672	(D)	...	...	177,791	...
43 Farm water users served									
44 directly.....water users 1959...	12,988	4,427	443	103	(D)	...	...	2,317	...
45 Total water conveyed.....acre-feet 1959...	3,279,132	897,605	12,741	22,957	(D)	...	...	524,523	...
46 Commercial.....organizations 1959...	246	...	51	4	1	...	165	...	1
47 1949...	401	1	80	6	3	...	270	...	1
48 Farm area irrigated directly.....acres 1959...	572,912	...	158,517	2,740	(D)	...	175,837	...	(D)
49 Farm water users served									
50 directly.....water users 1959...	11,270	...	5,919	17	(D)	...	2,806	...	(D)
51 Total water conveyed.....acre-feet 1959...	2,743,325	...	952,298	98,038	(D)	...	593,382	...	(D)
52 State.....organizations 1959...	7	1	...	...	...	...	...	4	1
53 1949...	31	...	...	1	...	1	...	29	...
54 Farm area irrigated directly.....acres 1959...	44,408	(D)	...	...	...	...	...	18,488	(D)
55 Farm water users served									
56 directly.....water users 1959...	853	(D)	...	...	...	...	...	373	(D)
57 Total water conveyed.....acre-feet 1959...	170,944	(D)	...	...	...	...	...	81,330	(D)
58 City.....organizations 1959...	35	2	15	4	2	1	...	...	...
59 1949...	50	2	22	5	1	...	...	1	...
60 Farm area irrigated directly.....acres 1959...	73,385	(D)	50,000	12,912	(D)	...	...	...	...
61 Farm water users served									
62 directly.....water users 1959...	3,441	(D)	2,140	513	(D)	...	...	...	...
63 Total water conveyed.....acre-feet 1959...	982,409	(D)	783,254	29,021	(D)	...	...	...	...

D Data not shown to avoid disclosure of information for individual organizations.

NA Not available.

IRRIGATION OF AGRICULTURAL LANDS

Summary Table 17 (Part 1 of 3).—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY STATES: CENSUSES OF 1959 AND 1950—Continued

Item (For definitions and explanations, see text)		Nevada	New Mexico	North Dakota	Oregon	South Dakota	Texas	Utah	Washington	Wyoming
1	Irrigation organizations, total									
2	number.....organizations 1959...	116	447	12	650	25	103	984	350	686
3	1949...	197	620	6	795	24	122	1,058	441	693
4	Area irrigated as reported by organizations.....acres 1959...	263,005	366,086	39,849	846,182	83,984	943,818	1,109,620	847,752	1,057,540
5	1949...	286,299	384,210	35,759	739,052	67,539	1,042,714	1,083,250	513,583	839,939
6	Farm water users served directly.....water users 1959...	2,646	20,828	234	17,712	715	24,588	43,001	29,752	8,962
7	Total water conveyed.....acre-feet 1959...	1,258,035	1,459,604	108,724	4,461,253	169,283	2,772,645	4,205,811	4,984,480	5,415,961
TYPE OF ORGANIZATION										
8	Mutual:									
9	Unincorporated.....organizations 1959...	61	363	1	473	9	25	316	209	521
10	1949...	90	485	...	580	13	34	406	273	538
11	Farm area irrigated directly.....acres 1959...	49,199	100,798	(D)	193,100	3,915	17,069	77,985	50,486	334,916
12	Farm water users served directly.....water users 1959...	309	8,147	(D)	2,513	43	201	2,442	1,523	2,358
13	Total water conveyed.....acre-feet 1959...	151,039	319,777	(D)	683,382	5,665	92,935	262,193	280,036	1,161,358
14	Incorporated.....organizations 1959...	42	57	1	115	11	4	651	66	113
15	1949...	47	80	1	127	8	11	634	82	120
16	Farm area irrigated directly.....acres 1959...	79,179	33,680	(D)	146,039	13,037	27,601	912,058	56,651	283,851
17	Farm water users served directly.....water users 1959...	977	1,709	(D)	3,084	190	183	36,345	3,422	2,503
18	Total water conveyed.....acre-feet 1959...	328,731	68,692	(D)	613,797	27,418	116,459	3,296,892	383,613	1,303,796
19	District.....organizations 1959...	4	11	6	55	1	51	8	65	37
20	1949...	4	7	4	47	1	45	5	74	27
21	Farm area irrigated directly.....acres 1959...	120,327	(D)	(D)	(D)	(D)	647,223	20,167	274,703	(D)
22	Farm water users served directly.....water users 1959...	1,095	(D)	(D)	(D)	(D)	21,490	1,984	17,835	(D)
23	Total water conveyed.....acre-feet 1959...	718,088	(D)	(D)	(D)	(D)	1,324,691	75,753	1,404,850	(D)
24	U. S. Bureau of Reclamation; projects and storage systems operated by bureau.....organizations 1959...	...	3	3	3	2	1	1	3	7
25	1949...	...	3	...	5	1	2	1	3	5
26	Farm area irrigated directly.....acres 1959...	...	132,323	1,319	12,645	11,382	59,023	1,030	333,179	40,540
27	Farm water users served directly.....water users 1959...	...	7,350	20	30	106	1,788	47	3,536	204
28	Total water conveyed.....acre-feet 1959...	...	682,987	3,908	44,701	48,955	299,762	29,414	1,933,708	210,089
29	U. S. Bureau of Reclamation; operated by water users.....organizations 1959...	2	4	4	32	1	3	13	7	12
30	1949...	...	...	...	11	(D)	2	10	11	NA
31	Farm area irrigated directly.....acres 1959...	107,655	67,594	25,376	391,972	(D)	106,650	36,279	169,912	190,769
32	Farm water users served directly.....water users 1959...	1,066	879	122	9,462	(D)	6,560	1,603	6,637	1,763
33	Total water conveyed.....acre-feet 1959...	501,043	227,060	90,052	2,754,120	(D)	207,491	275,113	860,011	1,679,308
34	U. S. Bureau of Indian Affairs.....organizations 1959...	8	12	...	2	2	...	2	5	6
35	1949...	14	42	...	3	1	...	3	2	1
36	Farm area irrigated directly.....acres 1959...	(D)	6,712	...	1,790	(D)	...	62,528	(D)	29,767
37	Farm water users served directly.....water users 1959...	(D)	570	...	37	(D)	...	726	(D)	288
38	Total water conveyed.....acre-feet 1959...	(D)	79,170	...	11,275	(D)	...	269,110	(D)	194,550
39	Commercial.....organizations 1959...	1	1	...	...	...	18	1	2	1
40	1949...	2	1	...	...	...	27	2	3	2
41	Farm area irrigated directly.....acres 1959...	(D)	(D)	...	...	...	185,289	(D)	(D)	(D)
42	Farm water users served directly.....water users 1959...	(D)	(D)	...	...	...	832	(D)	(D)	(D)
43	Total water conveyed.....acre-feet 1959...	(D)	(D)	...	...	...	801,987	(D)	(D)	(D)
44	State.....organizations 1959...	...	...	...	...	...	1	...	...	...
45	1949...	...	...	1	...	...	(D)	...	...	...
46	Farm area irrigated directly.....acres 1959...	...	...	...	...	...	...	...	...	...
47	Farm water users served directly.....water users 1959...	...	...	...	...	...	(D)	...	...	...
48	Total water conveyed.....acre-feet 1959...	...	...	...	...	...	(D)	...	...	...
49	City.....organizations 1959...	...	...	1	2	...	3	5	...	1
50	1949...	...	2	...	3	...	3	7	4	...
51	Farm area irrigated directly.....acres 1959...	...	...	...	(D)	...	(D)	(D)	...	(D)
52	Farm water users served directly.....water users 1959...	...	...	...	(D)	...	(D)	(D)	...	(D)
53	Total water conveyed.....acre-feet 1959...	...	...	...	(D)	...	(D)	(D)	...	(D)

D Data not shown to avoid disclosure of information for individual organizations.

NA Not available.

Summary Table 17 (Part 2 of 3).—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY STATES: CENSUSES OF 1959 AND 1950

Item (For definitions and explanations, see text)	18 States, total	Arizona	California	Colorado	Idaho	Kansas and Oklahoma	Louisiana	Montana	Nebraska
TYPE OF SERVICE, 1959									
1 All water directly from surface and ground water sources.....organizations...	7,543	140	846	1,612	726	12	203	1,002	62
2 Total water conveyed.....acre-feet...	70,168,762	3,100,324	16,817,062	7,289,598	13,281,058	193,854	617,850	5,818,054	1,858,915
3 Water delivered.....acre-feet...	56,765,261	2,378,826	15,002,875	5,952,055	10,593,765	156,377	567,804	4,321,516	1,062,435
4 To farm and residential users only.....organizations...	7,228	136	793	1,532	673	11	203	979	57
5 To farm and residential users and other irrigation organizations.....organizations...	30,939,577	768,299	4,395,091	3,555,344	4,640,742	101,083	567,804	3,640,880	665,788
6 Water to farm and residential users.....acre-feet...	259	2	37	67	47	...	...	23	4
7 Water to other irrigation organizations.....acre-feet...	10,388,158	649,600	1,300,836	1,347,291	3,811,043	...	...	427,198	309,536
8 To other irrigation organizations only.....organizations...	5,779,328	88,300	1,472,554	618,736	1,968,856	...	...	253,438	76,733
9 To other irrigation organizations only.....acre-feet...	50	2	14	13	6	1	...	...	1
10 Part of water from other organizations.....organizations...	9,658,198	872,627	7,834,394	430,684	173,125	55,294	...	...	10,378
11 Total water conveyed.....acre-feet...	452	7	123	90	65	2	...	19	3
12 From surface and ground water sources.....acre-feet...	15,896,595	630,007	10,545,371	1,032,046	2,296,945	99,435	...	182,575	35,919
13 From other irrigation organizations.....acre-feet...	2,828,497	161,463	504,793	416,086	871,115	13,094	...	154,807	2,977
14 Water delivered.....acre-feet...	13,068,098	468,544	10,040,578	615,960	1,425,830	86,341	...	27,768	33,342
15 To farm and residential users only.....organizations...	13,148,549	489,253	8,368,444	874,508	2,006,786	61,218	...	142,374	3,956
16 To farm and residential users and other irrigation organizations.....organizations...	371	6	91	68	57	2	...	16	2
17 Water to farm and residential users.....acre-feet...	5,856,526	272,272	2,779,735	289,233	1,635,569	61,218	...	109,052	1,104
18 Water to other irrigation organizations.....acre-feet...	76	1	31	19	8	...	...	3	1
19 To other irrigation organizations only.....organizations...	4,670,895	215,191	3,519,369	268,086	283,653	...	...	24,947	2,852
20 To other irrigation organizations only.....acre-feet...	2,565,560	1,790	2,059,636	288,513	87,564	...	...	8,375	...
21 All of water from other organizations.....organizations...	4	...	1	2	...	...	...	...	...
22 Total water conveyed.....acre-feet...	55,568	...	9,704	28,676	...	...	...	...	...
23 From surface and ground water sources.....acre-feet...	674	8	97	205	129	...	...	23	3
24 From other irrigation organizations.....acre-feet...	5,976,351	831,811	1,506,218	816,434	1,148,473	...	...	234,261	199,012
25 Water delivered.....acre-feet...	4,809,757	692,512	1,353,965	716,404	1,016,273	...	...	173,785	116,414
26 To farm and residential users only.....organizations...	617	7	80	188	113	...	...	23	3
27 To farm and residential users and other irrigation organizations.....organizations...	3,791,038	492,199	1,163,366	559,500	575,119	...	...	173,785	116,414
28 Water to farm and residential users.....acre-feet...	44	1	9	17	14	...	...	...	...
29 Water to other irrigation organizations.....acre-feet...	432,924	159,154	20,091	91,119	158,849	...	...	...	...
30 To other irrigation organizations only.....organizations...	402,575	41,159	11,893	65,785	280,856	...	...	...	...
31 To other irrigation organizations only.....acre-feet...	13	...	8	...	2	...	...	...	...
32 No water conveyed.....organizations...	183,220	...	158,615	...	1,449	...	...	...	...
33 WATER FROM OTHER SOURCES	80	...	9	26	7	2	...	6	...
34 Organizations reporting no water from other sources used on land served by the organization.....organizations...	7,301	124	833	1,470	793	10	203	808	62
35 Acres served.....	16,487,956	398,253	3,693,391	1,987,469	2,102,467	133,631	297,471	1,407,584	848,109
36 Acres irrigated.....	13,903,569	308,298	3,064,803	1,782,783	1,938,766	90,978	185,539	1,159,439	687,083
37 Water delivered to farms.....acre-feet...	44,600,549	1,436,080	10,046,439	4,493,362	9,295,415	122,981	567,804	3,537,172	1,059,054
38 Organizations reporting water from other sources used on land served by the organization.....organizations...	3.2	4.7	3.3	2.5	4.8	1.4	3.1	3.1	1.5
39 Acres served.....	1,284	29	206	420	119	3	...	234	5
40 Acres irrigated.....	4,677,298	369,969	1,714,108	1,059,677	423,765	21,416	...	265,041	44,769
41 Water delivered to farms.....acre-feet...	3,797,272	337,322	1,225,914	893,987	403,650	15,890	...	215,633	37,839
42 Acres served.....	9,870,930	1,056,145	2,733,437	1,466,136	1,710,738	39,320	...	867,527	70,393
43 Acres irrigated.....	2.6	3.1	2.2	1.6	4.2	2.5	...	4.0	1.9

IRRIGATION OF AGRICULTURAL LANDS

Summary Table 17 (Part 2 of 3).—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY STATES: CENSUSES OF 1959 AND 1950—Continued

Item (For definitions and explanations, see text)	Nevada	New Mexico	North Dakota	Oregon	South Dakota	Texas	Utah	Washington	Wyoming
TYPE OF SERVICE, 1959									
1 All water directly from surface and ground water sources.....organizations...	88	428	9	627	24	84	796	312	613
2 Total water conveyed.....acre-feet...	1,064,385	1,419,407	108,724	4,139,701	169,283	2,616,143	3,073,998	4,897,865	4,836,975
3 Water delivered.....acre-feet...	834,106	932,369	71,922	2,999,487	99,798	1,934,653	2,640,664	3,721,298	3,475,311
4 To farm and residential users only.....organizations...	86	416	9	614	24	77	757	304	587
5 To farm and residential users and other irrigation organizations.....organizations...	629,545	708,823	71,922	1,915,020	99,798	1,506,914	1,790,347	3,405,213	2,476,965
6 Water to farm and residential users.....acre-feet...	32,384	184,379	...	805,620	...	347,176	424,341	259,995	488,759
7 Water to other irrigation organizations.....acre-feet...	172,177	39,167	...	261,222	...	64,736	276,298	31,483	455,328
8 To other irrigation organizations only.....organizations...	...	...	...	1	...	1	5	2	6
9 acre feet...	...	...	...	17,325	...	35,827	149,678	24,607	54,259
10									
11 Part of water from other organizations.....organizations...	1	11	...	15	...	8	75	12	27
12 Total water conveyed.....acre-feet...	5,979	33,004	...	286,864	...	65,367	768,366	40,680	309,907
13 From surface and ground water sources.....acre-feet...	3,869	226	...	43,005	...	55,603	573,031	8,729	63,279
14 From other irrigation organizations.....acre-feet...	1,710	32,778	...	243,859	...	9,764	195,335	31,951	246,628
15 Water delivered.....acre-feet...	4,800	19,064	...	162,792	...	52,476	694,328	38,215	230,335
16 To farm and residential users only.....organizations...	1	10	...	15	...	6	65	11	25
17 To farm and residential users and other irrigation organizations.....organizations...	4,800	16,980	...	162,792	...	13,247	268,719	22,267	219,938
18 Water to farm and residential users.....acre-feet...	...	1	...	...	...	2	9	1	2
19 Water to other irrigation organizations.....acre-feet...	...	1,680	...	...	...	38,893	302,047	9,900	4,277
20 To other irrigation organizations only.....organizations...	...	804	...	...	...	336	106,374	6,048	6,120
21 acre feet...	...	...	...	...	...	...	1	...	...
22									
23 All of water from other organizations.....organizations...	26	7	...	4	...	11	107	23	35
24 Total water conveyed.....acre-feet...	188,071	7,193	...	34,988	...	91,135	363,447	45,935	269,079
25 Water delivered.....acre-feet...	177,366	5,000	...	33,034	...	69,793	311,423	38,015	105,773
26 To farm and residential users only.....organizations...	25	7	...	4	...	11	103	22	35
27 To farm and residential users and other irrigation organizations.....organizations...	159,762	5,000	...	33,034	...	69,793	300,033	37,260	105,773
28 Water to farm residential users.....acre-feet...	...	...	...	...	...	...	2	1	...
29 Water to other irrigation organizations.....acre-feet...	...	...	...	...	...	...	3,206	505	...
30 To other irrigation organizations only.....organizations...	1	...	...	...	...	...	2,632	250	...
31 acre feet...	17,604	...	...	...	...	...	2	...	...
32									
33 No water conveyed.....organizations...	1	1	3	4	1	...	6	3	11
WATER FROM OTHER SOURCES									
34 Organizations reporting no water from other sources used on land served by the organization.....organizations...	112	440	9	977	24	92	843	301	643
35 acres irrigated...	323,174	441,358	80,203	809,820	89,614	1,278,873	1,033,131	840,631	1,300,767
36 Water delivered to farms.....acre-feet...	273,889	350,653	72,012	760,014	84,144	861,652	883,664	746,002	1,198,763
37 acre-feet per acre...	855,353	845,675	152,922	2,568,770	99,664	1,777,350	2,425,877	3,291,955	3,450,251
38	3.1	2.4	2.1	3.3	1.2	2.1	2.7	4.4	2.9
39 Organizations reporting water from other sources used on land served by the organization.....organizations...	2	6	...	68	...	10	123	44	23
40 acres served...	439	32,543	...	331,481	...	120,880	234,360	112,501	46,896
41 acres irrigated...	439	25,490	...	323,964	...	82,166	221,055	105,671	38,100
42 Water delivered to farms.....acre-feet...	1,370	81,992	...	1,252,745	...	156,405	555,962	421,033	96,671
43 acre-feet per acre...	3.1	3.2	...	3.9	...	1.9	2.2	4.0	2.5

Summary Table 17 (Part 3 of 3).—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY STATES: CENSUSES OF 1959 AND 1950

Item (For definitions and explanations, see text)		18 States, total	Arizona	California	Colorado	Idaho	Kansas and Oklahoma	Louisiana	Montana	Nebraska
WATER DELIVERED PER ACRE										
Organizations reporting no water from other sources used on same land:										
0.1 to 0.9 acre-feet per acre.....	organizations...	468	8	54	137	31	3	4	33	7
1.0 to 1.9 acre-feet per acre.....	acres irrigated...	1,262,270	3,784	319,288	351,912	29,161	40,934	1,139	45,349	142,167
	organizations...	1,543	26	175	347	117	5	57	138	24
2.0 to 2.9 acre-feet per acre.....	acres irrigated...	3,179,286	14,539	485,243	539,475	126,289	40,340	27,481	323,156	431,215
	organizations...	1,681	29	210	301	169	1	90	180	22
3.0 to 3.9 acre-feet per acre.....	acres irrigated...	2,639,526	59,918	589,825	376,934	146,782	6,884	74,760	351,052	92,066
	organizations...	1,307	23	163	205	112	...	38	154	8
4.0 to 4.9 acre-feet per acre.....	acres irrigated...	2,111,608	10,874	606,280	162,064	240,532	...	23,157	169,165	17,448
	organizations...	829	11	105	126	105	...	12	101	1
5.0 to 5.9 acre-feet per acre.....	acres irrigated...	2,040,144	82,133	266,544	186,139	553,046	2,400	50,289	96,929	4,189
	organizations...	511	17	51	115	89	...	2	76	...
6.0 to 6.9 acre-feet per acre.....	acres irrigated...	1,444,832	100,778	633,831	63,036	408,167	...	8,713	56,390	...
	organizations...	332	26	78	71	...	...	...	45	...
7.0 to 7.9 acre-feet per acre.....	acres irrigated...	654,422	8,270	96,941	43,361	216,875	...	...	55,231	...
	organizations...	222	1	23	48	37	...	...	32	...
8.0 to 9.9 acre-feet per acre.....	acres irrigated...	211,791	60	39,090	17,001	79,857	...	...	18,899	...
	organizations...	256	5	19	65	51	...	...	25	...
10.0 or more acre-feet per acre.....	acres irrigated...	266,046	24,720	25,869	29,520	95,036	...	...	31,538	...
	organizations...	152	2	7	48	31	...	...	24	...
	acres irrigated...	93,024	3,222	1,912	13,341	43,051	...	...	11,700	...
SIZE OF ORGANIZATION										
Size of organization (number of farm irrigation water users served directly):										
None.....	organizations...	164	2	35	45	15	...	...	9	1
1 to 3.....	organizations...	2,811	28	227	810	249	3	...	99	219
	water users.....	6,672	55	536	1,921	582	...	...	224	1,216
4 to 9.....	organizations...	2,459	32	277	540	268	1	78	303	16
	water users.....	14,002	190	1,589	3,072	1,763	4	404	1,664	36
10 to 29.....	organizations...	1,754	34	348	1,156	582	...	...	224	1,216
	water users.....	28,311	579	3,924	4,973	3,621	5	13	2,665	283
30 to 99.....	organizations...	972	39	147	151	106	4	...	16	...
	water users.....	50,993	2,147	7,624	7,927	5,790	247	378	3,224	1,129
100 to 299.....	organizations...	369	16	80	51	198	2	1	...	...
	water users.....	60,896	2,688	13,414	7,634	6,055	357	345	3,287	2,052
300 to 999.....	organizations...	168	5	49	16	15	...	...	...	...
	water users.....	81,392	1,874	23,790	6,917	8,771	423	1,597	2,351	2,943
1,000 or more.....	organizations...	52	2	...	2	9	...	...	1	...
	water users.....	141,388	5,158	66,876	2,662	19,862	...	...	1,225	3,027
Size of organization (acre-feet of water delivered directly to farms):										
None.....	organizations...	164	2	35	45	15	3	...	9	1
1 to 299 acre-feet.....	organizations...	1,982	45	394	431	140	1	...	47	139
	acre-feet.....	279,411	5,059	47,941	60,242	22,611	19	9,665	20,753	200
300 to 999 acre-feet.....	organizations...	2,310	34	247	320	187	1	95	282	5
	acre-feet.....	1,348,478	19,301	135,136	314,300	111,155	800	51,832	169,190	3,179
1,000 to 2,999 acre-feet.....	organizations...	2,046	30	137	149	212	1	34	317	14
	acre-feet.....	3,651,596	55,314	249,149	891,871	379,667	1,807	55,375	558,692	22,318
3,000 to 9,999 acre-feet.....	organizations...	1,456	18	114	332	225	3	16	204	18
	acre-feet.....	7,577,594	108,055	653,363	1,761,332	1,254,319	17,295	78,537	1,082,748	117,387
10,000 to 29,999 acre-feet.....	organizations...	546	10	78	96	6	...	...	78	21
	acre-feet.....	9,065,371	172,809	1,372,993	1,483,674	1,547,955	111,023	91,213	1,280,732	392,297
30,000 to 99,999 acre-feet.....	organizations...	216	...	46	18	40	1	4	17	6
	acre-feet.....	11,453,599	466,188	2,642,298	956,806	1,979,238	31,357	172,378	819,805	335,417
100,000 or more acre-feet.....	organizations...	79	7	...	2	20	...	...	...	...
	acre-feet.....	21,234,756	1,665,499	7,679,396	491,273	5,711,208	...	108,804	472,779	260,251
Size of organization (acre-feet of water conveyed):										
None.....	organizations...	80	...	9	27	7	2	...	6	...
1 to 299 acre-feet.....	organizations...	1,707	42	399	377	115	2	...	43	113
	acre-feet.....	249,223	5,862	45,144	54,184	20,231	1,080	9,020	16,901	298
300 to 999 acre-feet.....	organizations...	2,197	31	230	302	171	...	...	98	259
	acre-feet.....	1,259,360	19,500	123,932	306,540	101,339	...	56,311	161,877	2,961
1,000 to 2,999 acre-feet.....	organizations...	2,059	28	139	479	208	1	35	313	12
	acre-feet.....	3,775,692	54,381	244,133	869,688	369,929	1,902	58,817	572,302	20,737
3,000 to 9,999 acre-feet.....	organizations...	1,397	21	148	379	230	2	...	...	...
	acre-feet.....	8,634,680	104,194	842,395	2,038,341	1,265,329	9,620	84,511	1,231,228	85,029
10,000 to 29,999 acre-feet.....	organizations...	681	13	93	126	108	7	6	224	14
	acre-feet.....	11,400,356	182,051	1,593,082	2,078,628	1,824,468	171,159	199,365	1,628,185	408,984
30,000 to 99,999 acre-feet.....	organizations...	296	10	52	35	58	...	4	31	10
	acre-feet.....	16,001,925	579,627	2,855,070	1,918,744	2,853,797	109,528	183,100	1,630,955	507,006
100,000 or more acre-feet.....	organizations...	132	10	45	8	30	...	1	...	...
	acre-feet.....	50,320,472	9,576,626	24,160,998	1,879,907	10,353,325	...	128,004	1,025,214	1,134,926

IRRIGATION OF AGRICULTURAL LANDS

Summary Table 17 (Part 3 of 3).—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION BY STATES: CENSUSES OF 1959 AND 1950—Continued

Item (For definitions and explanations, see text)	Nevada	New Mexico	North Dakota	Oregon	South Dakota	Texas	Utah	Washington	Wyoming
WATER DELIVERED PER ACRE									
Organizations reporting no water from other sources used on same land:									
0.1 to 0.9 acre-feet per acre.....organizations.....	3	45	2	28	6	12	53	4	44
acres irrigated.....	2,172	23,989	7,375	20,602	58,640	122,405	68,254	1,500	42,884
1.0 to 1.9 acre-feet per acre.....organizations.....	3	158	4	9	12	26	162	16	176
acres irrigated.....	43,492	105,215	15,001	80,036	10,345	397,651	242,583	12,689	479,080
2.0 to 2.9 acre-feet per acre.....organizations.....	33	119	2	127	1	20	219	39	154
acres irrigated.....	80,069	132,612	48,465	221,968	800	84,054	252,966	19,052	253,650
3.0 to 3.9 acre-feet per acre.....organizations.....	31	72	...	132	6	16	188	62	105
acres irrigated.....	120,564	22,802	...	162,184	14,359	208,095	130,228	142,687	164,524
4.0 to 4.9 acre-feet per acre.....organizations.....	15	24	1	84	...	5	101	71	68
acres irrigated.....	12,491	56,189	1,171	167,226	...	13,651	103,395	397,735	95,038
5.0 to 5.9 acre-feet per acre.....organizations.....	2	5	...	37	...	14	44	34	32
acres irrigated.....	7,004	469	...	63,509	...	28,628	22,837	13,426	79,363
6.0 to 6.9 acre-feet per acre.....organizations.....	3	3	...	25	...	3	42	17	33
acres irrigated.....	1,375	240	...	24,932	...	6,468	42,565	137,740	25,424
7.0 to 7.9 acre-feet per acre.....organizations.....	2	3	...	16	...	2	16	26	37
acres irrigated.....	5,390	490	...	5,774	...	170	4,495	6,874	34,461
8.0 to 9.9 acre-feet per acre.....organizations.....	...	3	...	28	...	1	13	31	15
acres irrigated.....	...	2,530	...	11,972	...	300	14,947	13,999	15,615
10.0 or more acre-feet per acre.....organizations.....	1	8	...	10	...	1	5	1	14
acres irrigated.....	1,332	6,117	...	1,811	...	230	1,294	300	8,714
SIZE OF ORGANIZATION									
Size of organization (number of farm irrigation water users served directly):									
None.....organizations.....	2	2	3	5	1	1	17	5	20
1 to 3.....organizations.....	31	61	1	220	5	15	134	105	307
water users.....	2	148	3	541	11	36	330	250	736
4 to 9.....organizations.....	42	88	2	250	9	21	264	84	202
water users.....	24	204	1	1,106	99	120	1,993	478	1,106
10 to 29.....organizations.....	25	162	4	104	6	23	286	70	104
water users.....	26	2,607	71	1,741	106	403	4,804	1,077	1,639
30 to 99.....organizations.....	12	107	1	44	2	17	178	47	34
water users.....	28	4,979	51	2,411	64	1,037	9,373	2,452	1,977
100 to 299.....organizations.....	3	21	...	11	1	13	74	18	1
water users.....	314	2,813	...	2,232	106	2,332	12,558	3,221	1,960
300 to 999.....organizations.....	1	3	...	13	...	2	31	13	5
water users.....	952	1,107	338	7,304	372	3,110	14,682	6,683	2,378
1,000 or more.....organizations.....	...	3	...	3	...	9	...	8	1
water users.....	...	9,050	...	7,238	...	16,552	...	15,637	1,512
Size of organization (acre-feet of water delivered directly to farms):									
None.....organizations.....	2	2	3	5	1	1	17	5	20
1 to 299 acre-feet.....organizations.....	17	222	1	152	7	9	254	93	90
acre-feet.....	1,032	26,975	154	22,194	1,099	1,406	29,845	14,598	15,858
300 to 999 acre-feet.....organizations.....	20	137	2	198	6	12	292	99	178
acre-feet.....	13,805	69,897	1,228	120,113	3,737	6,806	170,933	52,476	107,625
1,000 to 2,999 acre-feet.....organizations.....	37	54	...	156	6	26	266	73	202
acre-feet.....	64,923	86,432	...	282,017	10,233	59,876	466,367	132,376	349,147
3,000 to 9,999 acre-feet.....organizations.....	35	21	4	85	3	19	150	46	128
acre-feet.....	207,807	102,539	19,332	424,468	12,036	105,767	794,121	258,275	661,913
10,000 to 29,999 acre-feet.....organizations.....	13	6	...	34	...	14	42	23	38
acre-feet.....	218,642	108,471	16,218	586,769	...	252,979	676,074	337,447	971,990
30,000 to 99,999 acre-feet.....organizations.....	1	3	...	13	...	18	11	6	26
acre-feet.....	71,200	162,202	...	671,564	72,599	972,879	504,174	286,472	1,309,022
100,000 or more acre-feet.....organizations.....	2	2	...	7	...	...	2	4	5
acre-feet.....	279,314	371,151	116,000	1,721,390	...	534,042	350,595	2,631,344	532,067
Size of organization (acre-feet of water conveyed):									
None.....organizations.....	1	1	3	4	1	...	6	3	11
1 to 299 acre-feet.....organizations.....	6	201	1	129	5	8	159	78	68
acre-feet.....	972	25,807	154	18,619	620	1,248	24,759	12,197	12,127
300 to 999 acre-feet.....organizations.....	13	134	2	193	5	12	277	101	168
acre-feet.....	8,105	68,620	1,410	114,946	2,755	6,836	165,271	54,798	100,805
1,000 to 2,999 acre-feet.....organizations.....	3	68	...	160	7	18	280	69	210
acre-feet.....	77,388	110,878	...	281,400	11,458	115,072	503,339	124,221	380,470
3,000 to 9,999 acre-feet.....organizations.....	35	27	4	102	...	20	183	53	145
acre-feet.....	219,924	137,085	21,870	500,118	20,040	96,221	976,565	277,126	796,849
10,000 to 29,999 acre-feet.....organizations.....	15	9	1	36	...	17	55	31	53
acre-feet.....	258,103	152,898	20,290	627,723	...	289,433	891,891	478,451	882,682
30,000 to 99,999 acre-feet.....organizations.....	1	4	...	17	2	22	22	10	23
acre-feet.....	97,000	234,173	...	917,736	138,890	1,323,198	1,177,470	544,333	1,353,904
100,000 or more acre-feet.....organizations.....	2	3	...	9	...	6	2	5	8
acre-feet.....	605,303	785,733	212,000	3,067,787	...	944,637	498,441	3,536,669	1,894,462

Summary Table 18.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT: CENSUSES OF 1959 AND 1950

Item (For definitions and explanations, see text)	18 States, total						
	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other
		Unincorporated	Incorporated		Projects and stores systems operated by bureau	Operated by water users	
Irrigation organizations.....organizations 1959...	8,749	4,989	2,737	558	54	147	411
Service area, 1959:	10,491	6,464	2,884	483	37	NA	623
Area served, as reported							
by organizations.....acres.....	21,165,254	2,458,917	7,898,967	8,189,790	831,003	3,620,787	1,786,577
Area irrigated, as reported							
by organizations.....acres.....	17,700,841	2,067,917	6,732,753	6,920,527	710,904	3,301,541	1,269,340
Water users served, 1959, total.....water users.....	1,612,111	46,201	281,899	290,873	21,169	121,604	971,969
Farm irrigation water users.....water users.....	383,654	32,360	129,375	178,619	14,748	62,998	28,552
Residential water users.....water users.....	1,204,339	13,718	148,178	111,855	6,334	55,011	924,524
Other water users.....water users.....	24,118	123	4,346	669	87	3,595	18,893
TYPE OF SERVICE, 1959							
All water directly from surface and ground							
water sources.....organizations.....	7,543	4,683	2,089	376	24	89	371
Total water conveyed.....acre-feet.....	70,168,762	7,847,566	23,398,479	20,978,231	12,999,902	11,167,168	5,384,584
Water delivered.....acre-feet.....	56,765,261	6,612,777	18,803,039	15,649,050	11,553,457	8,138,081	4,146,938
only.....organizations.....	7,228	4,647	1,882	330	11	63	358
acre-feet.....	30,939,577	6,428,760	10,182,820	9,000,640	1,910,088	3,340,034	3,417,269
To farm and residential users and other							
irrigation organizations.....organizations.....	259	26	176	41	6	20	10
Water to farm and residential							
users.....acre-feet.....	10,388,158	49,946	5,390,596	4,162,219	399,768	3,361,354	385,269
Water to other irrigation							
organizations.....acre-feet.....	5,779,328	47,930	2,717,386	1,591,190	1,310,169	1,256,023	112,653
To other irrigation organizations							
only.....organizations.....	50	8	27	5	7	6	3
acre-feet.....	9,658,198	86,141	512,237	895,001	7,933,432	185,670	231,387
Part of water from other							
organizations.....organizations.....	452	107	236	82	2	23	25
Total water conveyed.....acre-feet.....	15,896,595	236,409	4,052,839	9,945,563	131,288	6,536,032	1,530,816
From surface and ground water							
sources.....acre-feet.....	2,828,497	86,589	619,634	1,001,391	1,24,494	1,127,375	1,145,377
From other irrigation organizations.....acre-feet.....	13,068,098	149,484	3,433,245	8,944,172	155,782	6,939,558	385,439
Water delivered.....acre-feet.....	13,348,549	166,884	3,251,702	8,203,719	90,620	4,956,783	1,305,624
To farm and residential users							
only.....organizations.....	371	182	182	67	2	20	15
acre-feet.....	5,856,526	184,212	1,937,208	3,498,750	90,620	668,700	145,736
To farm and residential users and other							
irrigation organizations.....organizations.....	76	2	50	15	...	5	9
Water to farm and residential							
users.....acre-feet.....	4,670,895	11,868	935,377	2,713,206	...	2,486,381	1,010,444
Water to other irrigation							
organizations.....acre-feet.....	2,565,560	804	450,441	1,982,059	...	1,801,704	132,256
To other irrigation organizations							
only.....organizations.....	4	...	2	1	...	...	...
acre-feet.....	55,568	...	28,676	9,704	...	...	17,188
All of water from other organizations.....organizations.....	674	193	377	7	2	23	13
Total water conveyed.....acre-feet.....	5,576,351	312,247	2,524,208	2,407,739	71,747	816,005	260,410
Water delivered.....acre-feet.....	4,809,757	275,227	2,239,587	2,072,880	53,984	1,428,299	168,079
To farm and residential users							
only.....organizations.....	617	183	343	79	2	19	10
acre-feet.....	3,791,038	255,836	1,614,618	1,705,503	53,984	1,216,562	161,077
To farm and residential users and other							
irrigation organizations.....organizations.....	44	7	31	5	...	2	1
Water to farm and residential							
users.....acre-feet.....	432,924	7,743	257,307	166,597	...	165,258	1,217
Water to other irrigation							
organizations.....acre-feet.....	402,575	8,826	341,664	49,787	...	42,502	2,298
To other irrigation organizations							
only.....organizations.....	13	3	3	5	...	1	2
acre-feet.....	183,220	2,822	25,938	150,993	...	3,979	3,467
No water conveyed.....organizations.....	80	7	35	9	27	7	2
WATER FROM OTHER SOURCES							
Organizations reporting no water from other							
sources used on the land served by the							
organization.....organizations.....	7,301	4,339	2,124	441	19	103	378
acre served.....acres.....	16,487,296	2,043,039	5,520,210	6,578,244	829,973	2,695,464	1,510,950
water delivered to farms (acre-feet).....	13,903,569	1,734,282	4,748,411	5,680,618	709,874	2,426,581	1,030,384
acre-foot per acre.....	44,600,549	5,833,767	15,400,864	17,241,698	2,439,257	8,436,282	3,664,963
Organizations reporting water from other							
sources used on land served by the							
organization.....organizations.....	1,284	629	539	95	1	24	24
acre served.....acres.....	4,677,298	409,468	2,718,757	1,611,546	1,030	729,786	276,497
water delivered to farms (acre-feet).....	3,797,272	333,035	1,984,542	1,239,959	1,030	696,298	238,956
acre-foot per acre.....	9,862,683	1,042,482	4,427,146	3,656,230	3,089	329,365	735,736
NEW CAPITAL INVESTMENT, 1950-1959							
Expenditures for additional new works and							
equipment for irrigation and drainage,							
January 1, 1950-December 31, 1959.....organizations.....	4,177	2,191	1,389	369	38	127	190
By U. S. B. R.....dollars.....	795,970,391	...	12,994,596	223,853,290	559,122,505	236,847,886	...
By water users organizations.....dollars.....	243,623,484	5,951,420	52,586,056	155,356,345	...	48,686,427	29,729,663

See footnotes at end of table.

IRRIGATION OF AGRICULTURAL LANDS

Summary Table 18.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATION, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT: CENSUSES OF 1959 AND 1950-59.

Item (For definitions and explanations, see text)	18 States, total						
	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users	
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
Total entering conveyance systems.....organizations... acre-feet.....	8,668 72,997,259	4,982 7,934,155	2,701 24,018,113	548 21,597,730	27 12,917,300	140 9,363,103	410 6,529,961
From another drainage basin.....organizations... acre-feet.....	...	...	...	...	...	...	...
From drainage basin.....D. B. No.....	...	...	...	...	...	...	...
From sources within basin.....organizations... acre-feet.....	7,994 72,997,259	4,787 7,934,155	2,325 24,018,113	460 21,597,730	25 12,917,300	137 9,363,103	397 6,529,961
Surface water.....organizations... acre-feet.....	6,984 68,685,789	4,311 7,983,049	1,973 22,305,174	423 20,194,167	25 12,607,865	116 8,548,090	252 5,995,534
Ground water.....organizations... acre-feet.....	1,266 4,311,470	534 351,106	467 1,712,939	76 1,403,563	12 309,439	42 815,053	184 534,427
From other organizations in the basin.....organizations receiving... acre-feet.....	1,123 18,644,449	299 461,707	613 5,957,453	169 11,351,911	4 227,529	44 9,971,908	38 645,849
Total leaving conveyance systems.....organizations... acre-feet.....	8,668 72,997,259	4,982 8,249,339	2,701 25,899,224	548 28,260,529	27 3,911,606	138 16,917,042	410 6,676,561
Conveyance loss in basin.....organizations... acre-feet.....	7,238 15,847,148	4,246 1,278,706	2,202 5,305,070	438 6,646,791	20 1,359,041	122 4,518,194	332 1,257,540
Conveyed to another drainage basin.....organizations... acre-feet.....	...	...	...	...	...	...	...
To drainage basin number.....D. B. No.....	...	...	...	...	...	...	...
Delivered for use in the basin.....organizations... acre-feet.....	8,604 57,150,111	4,912 6,970,633	2,670 20,594,154	536 21,613,738	21 2,552,565	131 11,501,757	405 5,419,021
To farm irrigation water users.....organizations... acre-feet.....	8,585 54,471,479	4,967 6,876,249	2,661 19,836,257	534 20,895,928	20 2,442,346	127 11,130,126	403 4,420,699
To domestic water users.....organizations... acre-feet.....	998 1,607,639	273 62,116	523 481,729	132 350,987	6 12,114	38 182,170	64 700,693
For other use.....organizations... acre-feet.....	1,070,993	32,268	276,168	366,823	98,105	189,455	297,629
Delivered to other irrigation organizations..... organizations delivering... acre-feet.....	444 18,644,449	45 146,523	289 4,076,342	72 4,689,112	12 9,233,223	31 3,284,876	26 499,249
SIZE OF ORGANIZATION, 1959							
Size of organization (number of farm irrigation water users):							
None.....organizations... 1 to 3 water users.....organizations... 4 to 9 water users.....organizations... 10 to 29 water users.....organizations... 30 to 99 water users.....organizations... 100 to 299 water users.....organizations... 300 to 999 water users.....organizations... 1,000 or more water users.....organizations...	164 2,811 2,429 1,754 1,972 369 168 52	22 2,232 1,715 571 130 18 1 ...	76 160 593 1,005 625 213 37 8	23 18 44 105 143 104 88 33	34 ... 1 2 6 5 1 5	14 1 3 8 28 40 43 10	9 102 106 74 67 29 17 6
Size of organization (acre-feet of water delivered directly to farms):							
None.....organizations... 1 to 299 acre-feet.....organizations... 300 to 999 acre-feet.....organizations... 1,000 to 2,999 acre-feet.....organizations... 3,000 to 9,999 acre-feet.....organizations... 10,000 to 29,999 acre-feet.....organizations... 30,000 to 99,999 acre-feet.....organizations... 100,000 or more acre-feet.....organizations...	164 1,982 2,310 2,046 1,406 546 216 79	22 1,542 1,638 1,210 510 613 4 ...	76 323 524 683 707 325 83 16	23 25 32 72 132 130 97 47	34 3 6 6	14 3 126 8 21 25 39 28	9 92 116 81 52 26 16 20
Size of organization (acre-feet of water conveyed):							
None.....organizations... 1 to 299 acre-feet.....organizations... 300 to 999 acre-feet.....organizations... 1,000 to 2,999 acre-feet.....organizations... 3,000 to 9,999 acre-feet.....organizations... 10,000 to 29,999 acre-feet.....organizations... 30,000 to 99,999 acre-feet.....organizations... 100,000 or more acre-feet.....organizations...	80 1,707 2,197 2,059 1,597 681 296 132	6 1,362 1,599 1,273 641 101 142 ...	35 256 458 562 756 395 132 ...	10 13 28 52 133 140 112 70	27 4 9 11	7 1 9 18 32 33 43	2 76 112 72 64 32 26 18

NA Not available. ²Water was transferred to the basin and released to natural stream channels in excess of the quantity of surface water withdrawn by irrigation organizations. The net effect was to increase the available surface water supply to the basin or State.

Summary Table 19.-NUMBER OF IRRIGATION ORGANIZATIONS, TYPE OF SERVICE, NEW CAPITAL INVESTMENT, AND WATER CONVEYED, BY SIZE OF ORGANIZATION: CENSUS OF 1959

Item (For definitions and explanations, see text)	18 States, total			
	Size of organization (by total water conveyed)			
	0-999 acre-feet	1,000-9,999 acre-feet	10,000-99,999 acre-feet	100,000 or more acre-feet
1 Number of organizations.....organizations...	3,984	3,656	977	132
TYPE OF SERVICE				
2 All water directly from surface and ground sources.....organizations...	3,629	3,060	758	96
3 Total water conveyed.....acre-feet...	1,418,782	10,162,521	20,982,477	37,604,982
4 Water delivered.....acre-feet...	1,250,901	8,535,875	16,583,362	30,393,123
5 To farm and residential users only.....organizations...	3,604	2,997	619	68
6 To farm and residential users only.....acre-feet...	1,236,534	8,134,885	12,480,997	9,087,161
7 To farm and residential users and other irrigation organizations.....organizations...	12	85	119	40
8 Water to farm and residential users.....acre-feet...	7,748	219,334	2,059,707	8,101,369
9 Water to other irrigation organizations.....acre-feet...	2,485	119,772	1,538,548	4,118,523
10 To other irrigation organizations only.....organizations...	7	16	19	8
11 To other irrigation organizations only.....acre-feet...	4,134	61,884	506,110	9,086,070
12 Part of water from other organizations.....organizations...	106	194	126	26
13 Total water conveyed.....acre-feet...	49,458	782,426	4,161,981	10,902,730
14 From surface and ground water sources.....acre-feet...	16,195	343,204	1,793,053	715,955
15 From other irrigation organizations.....acre-feet...	33,263	439,132	2,408,928	10,186,775
16 Water delivered.....acre-feet...	44,055	673,812	3,581,181	8,849,501
17 To farm and residential users only.....organizations...	103	172	81	15
18 To farm and residential users only.....acre-feet...	42,699	569,909	2,376,181	2,867,737
19 To farm and residential users and other irrigation organizations.....organizations...	3	21	41	11
20 Water to farm and residential users.....acre-feet...	957	62,317	704,539	3,903,082
21 Water to other irrigation organizations.....acre-feet...	399	35,286	451,193	2,078,682
22 To other irrigation organizations only.....organizations...	...	1	3	...
23 To other irrigation organizations only.....acre-feet...	...	6,300	49,268	...
24 All of water from other organizations.....organizations...	169	402	93	10
25 Total water conveyed.....acre-feet...	75,343	1,465,425	2,297,823	1,777,760
26 Water delivered.....acre-feet...	67,498	1,292,830	1,869,419	1,580,010
27 To farm and residential users only.....organizations...	159	276	75	7
28 To farm and residential users only.....acre-feet...	63,454	1,190,089	1,484,965	1,052,530
29 To farm and residential users and other irrigation organizations.....organizations...	9	18	15	2
30 Water to farm and residential users.....acre-feet...	1,929	45,768	178,861	206,366
31 Water to other irrigation organizations.....acre-feet...	1,691	35,249	159,881	205,754
32 To other irrigation organizations only.....organizations...	1	8	3	1
33 To other irrigation organizations only.....acre-feet...	424	21,724	45,712	115,360
34 No water conveyed.....organizations...	80	...	...	...
WATER FROM OTHER SOURCES				
35 Organizations reporting no water from other sources used on land served by the organization.....organizations...	3,393	3,062	745	101
36 Water delivered.....acre-feet...	834,080	3,580,196	5,971,417	6,102,263
37 acres irrigated.....	568,068	2,910,467	4,895,782	5,529,252
38 Organizations reporting water from other sources used on land served by the organization.....organizations...	496	563	203	22
39 Water delivered.....acre-feet...	172,897	1,070,474	2,211,416	1,222,511
40 acres irrigated.....	119,016	777,540	1,720,830	1,179,886
NEW CAPITAL INVESTMENT, 1950-1959				
41 Expenditures for additional new works and equipment for irrigation and drainage, January 1, 1950-December 31, 1959.....organizations...	1,574	1,876	625	102
42 dollars.....	125,642,357	169,969,032	224,044,750	519,937,736
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959				
43 Total entering conveyance systems in basin.....organizations...	3,904	3,656	976	132
44 From another drainage basin.....acre-feet...	1,399,977	10,505,815	22,735,530	38,355,937
45 From Drainage Basin number.....D. B. No.....	...	...	...	...
46 From natural sources within basin.....organizations...	3,736	3,253	882	123
47 Surface water.....organizations...	1,399,977	10,505,815	22,735,530	38,355,937
48 Ground water.....organizations...	2,999	3,058	845	122
49 From other organizations in the basin.....organizations receiving...	1,139,745	9,827,106	21,487,556	36,231,982
50 Surface water.....acre-feet...	833	103	103	27
51 Ground water.....acre-feet...	260,232	678,709	1,247,974	2,124,555
52 From other organizations in the basin.....acre-feet...	277	596	215	35
53 Total leaving conveyance systems.....organizations...	108,606	1,904,557	4,666,751	11,964,535
54 Conveyance loss in basin.....organizations...	3,904	3,656	976	132
55 Conveyed to another drainage basin.....organizations...	1,499,450	12,130,137	24,651,569	34,716,083
56 To drainage basin number.....D. B. No.....	2,958	3,294	866	120
57 To farm irrigation water users.....organizations...	207,135	1,740,518	4,810,909	9,088,586
58 To residential water users.....organizations...	...	...	...	...
59 Delivered for use in the basin.....organizations...	...	...	...	...
60 To farm irrigation water users.....acre-feet...	3,895	3,629	954	126
61 To residential water users.....acre-feet...	1,292,315	10,389,639	19,840,660	25,627,497
62 For other use.....organizations...	3,892	3,622	948	123
63 Delivered to other irrigation organizations.....acre-feet...	1,260,131	9,908,012	18,851,128	24,452,208
64 To farm irrigation water users.....acre-feet...	351	433	182	32
65 To residential water users.....acre-feet...	28,090	314,390	434,122	831,037
66 For other use.....acre-feet...	38	130	96	32
67 Delivered to other irrigation organizations.....organizations delivering...	4,094	167,237	555,410	344,252
68 To farm irrigation water users.....acre-feet...	35	150	198	61
69 To residential water users.....acre-feet...	9,133	280,215	2,750,712	15,604,389
AVERAGE DELIVERY OF IRRIGATION WATER PER ACRE, 1959				
70 For acre irrigated, as reported by irrigation organization:				
71 All organizations.....acre-feet...	2.0	2.7	2.8	3.7
72 Organizations reporting no water from other sources used on land served by the organization.....organizations...	3,393	3,062	745	101
73 acres irrigated.....	2.0	2.8	3.0	3.7

IRRIGATION OF AGRICULTURAL LANDS

Summary Table 20.—ORGANIZATIONS REPORTING QUANTITIES OF IRRIGATION WATER DELIVERED DIRECT TO FARMS AND TO OTHER ORGANIZATIONS, 1959 AND 1949; FOR USES OTHER THAN IRRIGATION, 1959; AND AVERAGE QUANTITY OF WATER DELIVERED TO FARMS PER ACRE OF IRRIGATED LAND, 1959, 1949, AND 1939

[Interstate organizations are counted in each State in which they had irrigation works; but only once in the 18 States total. See text.]

State	Water delivered ¹										Average quantity of water delivered to farms per acre of irrigated land ² (Acre-feet)		
	Direct to farms				To other organizations				For use other than irrigation				
	Organizations reporting		Acre-feet		Organizations reporting		Acre-feet		Organizations reporting, 1959	Acre-feet, 1959			
	1959	1949	1959	1949	1959	1949	1959	1949			1959	1949	1939
18 States, total....	8,585	9,283	54,471,479	45,223,037	444	1,801	18,644,449	23,143,852	1,161	2,678,632	3.1	3.4	3.1
Arizona.....	153	147	2,487,199	2,079,862	5	27	1,003,876	458,865	27	137,621	3.9	4.0	3.7
California.....	1,039	1,277	12,350,452	8,962,033	96	246	11,546,796	5,663,456	275	1,256,556	3.0	3.1	2.8
Colorado.....	1,888	2,075	5,943,099	6,201,791	118	460	1,432,394	1,945,226	161	313,227	2.2	2.9	2.9
Idaho.....	911	933	10,884,661	10,046,095	76	209	2,511,850	8,209,304	122	236,124	4.7	5.3	5.7
Kansas and Oklahoma....	13	12	162,301	88,697	1	7	55,294	12,495	1	3,921	1.5	1.7	1.6
Louisiana.....	203	312	567,804	515,760	...	13	...	7,460	...	...	3.1	2.0	2.4
Montana.....	1,041	965	4,333,721	3,543,947	26	196	261,813	627,795	37	55,255	3.2	3.3	2.3
Nebraska.....	66	63	1,095,537	950,477	4	17	87,111	172,182	1	157	1.6	1.9	2.4
Nevada.....	113	152	824,592	931,394	3	25	189,781	345,466	13	10,730	3.1	3.0	3.3
New Mexico.....	445	593	900,617	1,230,618	12	26	39,971	266,517	82	26,874	2.5	2.9	3.0
North Dakota.....	9	5	71,922	165,952	...	1	...	1,800	...	...	1.8	2.4	1.8
Oregon.....	645	608	2,885,053	3,113,333	11	138	278,847	817,108	49	63,774	3.4	3.4	3.6
South Dakota.....	24	20	99,088	106,202	...	3	...	1,470	4	710	1.2	1.6	1.1
Texas.....	102	107	1,933,755	2,577,914	9	48	100,899	357,990	33	267,852	2.0	2.3	2.5
Utah.....	965	1,008	2,956,192	3,084,332	52	151	597,722	1,214,120	262	211,821	2.7	3.1	3.2
Washington.....	345	392	3,697,304	2,479,273	10	100	62,388	2,012,537	97	66,937	4.4	5.2	5.6
Wyoming.....	659	668	3,278,182	2,405,796	25	158	515,707	3,972,444	38	27,073	3.1	2.6	2.2

¹Water delivered by Interstate organizations is the amount delivered within the State only for 1959, but is for the entire organization in 1949. See text.

²For 1959, 1949, and 1939 calculated average quantity of water per acre for total irrigated land, all irrigation organizations, primary and supplemental irrigation combined.

STATE TABLES



ARIZONA

(81)

State Table 1.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY DRAINAGE BASINS:
CENSUSES OF 1959 AND 1950

	Item (For definitions and explanations, see text)	The State (Gulf of California)	Gulf of California excluding Colorado River (IV-A)				Colorado River below Lees Ferry, excluding Gila River (IV-B)			
			Total	Yamori (Valahmi) Wash	Whitewater Draw	Colorado River, total	Colorado River direct			
							Total	Below Imperial Dam	Above Imperial Dam	
			(1)	(2)			(1a)	(1b)		
1	Total acres irrigated in Census year.....1959.....	1,152,450	22,000	4,000	18,000	1,130,000	168,000	146,000	96,000	50,000
2	.....1949.....	979,114	10,966	2,555	8,411	968,148	104,723	87,700	71,255	16,445
3	Irrigation organizations.....organizations 1959.....	155	1	1	...	154	42	13	8	5
4	.....1949.....	163	3	3	...	160	42	10	3	8
5	Service area, 1959:									
6	Farm area reported served by organizations.....acres 1959.....	766,448	(D)	(D)	...	764,948	217,347	190,946	155,130	35,816
7	Farm area reported irrigated by organizations.....acres 1959.....	643,846	(D)	(D)	...	642,846	176,569	161,014	129,870	31,144
8	Water users served, total.....water users 1959.....	43,729	(D)	(D)	...	43,727	2,530	1,277	998	279
9	Farm irrigation water users.....water users 1959.....	12,555	(D)	(D)	...	12,553	2,133	1,149	918	231
10	Residential water users.....water users 1959.....	27,727	...	...	...	27,727	381	116	70	46
11	Other water users.....water users 1959.....	3,447	...	...	...	3,447	16	12	10	2
12	LAND IRRIGATED BY SOURCE OF WATER, 1959									
13	Ground water sources.....acres.....	772,353	22,000	4,000	18,000	750,000	31,000	23,000	17,000	6,000
14	Surface water sources.....acres.....	380,097	...	...	...	380,000	137,000	123,000	79,000	44,000
15	WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959									
16	Total entering conveyance systems in basin.....organizations.....acre-feet.....	155 3,558,266	1 (D)	1 (D)	...	154 3,555,116	42 1,227,995	13 1,180,410	8 917,279	5 263,131
17	From another drainage basin.....organizations.....acre-feet.....	1 299,479	...	...	...	1 299,479	1 299,479	1 299,479	1 299,479	...
18	From drainage basin number.....D. B. No....	...	...	...	...	...	...	...	IV-B-1a	...
19	From natural sources within basin.....organizations.....acre-feet.....	146 3,258,787	1 (D)	1 (D)	...	145 3,255,637	36 928,516	7 880,931	2 617,800	5 263,131
20	Surface water.....organizations.....acre-feet.....	117 1,991,449	...	...	...	117 1,991,449	33 920,000	7 880,881	2 617,800	5 263,081
21	Ground water.....organizations.....acre-feet.....	63 1,267,338	1 (D)	1 (D)	...	62 1,264,188	6 8,516	1 50	...	1 50
22	From other organizations in the basin.....organizations receiving.....acre-feet.....	14 1,003,876	...	...	...	14 1,003,876	6 701,694	6 701,694	6 701,694	...
23	Total leaving conveyance systems.....organizations.....acre-feet.....	155 3,558,266	1 (D)	1 (D)	...	154 3,555,116	42 1,227,995	13 1,180,410	8 917,279	5 263,131
24	Conveyance loss in basin.....organizations.....acre-feet.....	148 925,506	1 (D)	1 (D)	...	147 925,356	38 255,903	10 245,370	5 144,416	5 100,954
25	Conveyed to another drainage basin.....organizations.....acre-feet.....	1 7,940	...	...	...	1 7,940	1 7,940	...	...	...
26	To drainage basin number.....D. B. No....	...	...	...	...	...	...	...	...	...
27	Delivered for use in the basin.....organizations.....acre-feet.....	153 2,624,820	1 (D)	1 (D)	...	152 2,621,820	41 964,152	12 935,040	7 772,863	5 162,177
28	To farm irrigation water users.....organizations.....acre-feet.....	153 2,487,199	1 (D)	1 (D)	...	152 2,484,199	41 960,533	12 932,263	7 770,536	5 161,727
29	To residential water users.....organizations.....acre-feet.....	24 69,516	...	...	...	24 69,516	8 1,240	3 640	2 440	1 200
30	For other use.....organizations.....acre-feet.....	10 68,105	...	...	...	10 68,105	3 2,379	2 2,137	1 1,887	1 250
31	Delivered to other irrigation organizations.....organizations delivering.....acre-feet.....	5 1,003,876	...	...	...	5 1,003,876	3 701,694	3 701,694	3 701,694	...
32	Average delivery of irrigation water per acre irrigated as reported by organizations.....acre-feet.....	3.9	(D)	(D)	...	3.9	5.4	5.8	5.9	5.2
33	NEW CAPITAL INVESTMENT, 1950-1959									
34	Expenditures for additional new works and equipment for irrigation and drainage, Jan. 1, 1950-Dec. 31, 1959.....organizations.....dollars.....	76 62,924,613	1 (D)	1 (D)	...	75 62,424,613	15 41,137,602	14 40,945,315	4 32,942,315	3 8,003,000

D Data not shown to avoid disclosure of information for individual organizations.

State Table 1.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY DRAINAGE BASINS:
CENSUSES OF 1959 AND 1950—Continued

Item (For definitions and explanations, see text)		Colorado River below Lees Ferry, excluding Gila River (IV-B)—Continued				Gila River (IV-C)					
		Little Colorado River				Total	Gila River direct				
		Virgin River	Total	Below Hunt	Above Hunt		Total	Below Gillespie Dam	Gillespie Dam to Laveen Gage (including Salt and Agu Fria Rivers)	Laveen Gage to Coolidge Dam	Above Coolidge Dam
(3a)		(4a)	(4b)		(1a)	(1b)	(1c)	(1d)			
1	Total acres irrigated in Census year.....1959...	2,000	20,000	11,000	9,000	961,000	661,000	72,000	426,000	112,000	51,000
2	1949...	684	16,339	9,332	7,007	857,039	594,836	27,969	438,393	87,576	40,878
3	Irrigation organizations.....organizations 1959...	4	25	18	7	83	49	...	12	8	29
4	1949...	4	27	18	9	96	67	3	25	6	33
	Service area, 1959: Farm area reported served by organizations.....acres 1959...	690	25,711	10,167	15,544	522,099	467,804	...	328,222	96,520	43,062
6	Farm area reported irrigated by organizations.....acres 1959...	690	14,865	5,533	9,332	454,358	417,534	...	308,582	66,446	42,506
7	Water users served, total.....water users 1959...	24	1,229	725	504	39,438	36,536	...	33,291	2,088	1,297
8	Farm irrigation water users.....water users 1959...	24	960	599	361	9,062	8,216	...	5,026	2,069	1,121
9	Residential water users.....water users 1959...	...	265	122	143	26,945	24,894	...	24,898	...	36
10	Other water users.....water users 1959...	...	4	4	...	3,431	3,426	...	3,407	19	...
	LAND IRRIGATED BY SOURCE OF WATER, 1959										
11	Ground water sources.....acres...	1,000	7,000	5,000	2,000	719,000	444,000	11,000	323,000	71,000	39,000
12	Surface water sources.....acres...	1,000	13,000	6,000	7,000	242,000	217,000	61,000	103,000	41,000	12,000
	WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959										
13	Total entering conveyance systems in basin.....organizations...	4	25	18	7	83	49	...	12	8	29
14	acre-feet...	11,965	35,620	23,356	12,264	2,277,765	2,132,681	...	1,617,866	351,040	165,267
15	From another drainage basin.....organizations...	...	...	...	...	...	1	...	1	...	...
16	acre-feet...	...	...	...	...	...	212,580	...	212,580	1,492	...
17	From drainage basin number.....D. B. No....	...	...	...	...	...	...	...	IV-C-2	IV-C-1b	...
18	From natural sources within basin.....organizations...	4	25	18	7	80	46	...	11	6	29
19	acre-feet...	11,965	35,620	23,356	12,264	2,277,765	1,920,101	...	1,405,286	349,548	165,267
20	Surface water.....organizations...	4	22	16	6	57	34	...	7	2	25
21	acre-feet...	11,965	27,154	16,234	10,920	1,041,712	804,510	...	515,975	198,245	90,290
22	Ground water.....organizations...	2	5	3	2	50	37	...	9	6	22
23	acre-feet...	...	8,466	7,122	1,344	1,236,053	1,115,591	...	889,311	151,303	74,977
24	From other organizations in the basin.....organizations receiving...	...	...	...	...	8	8	...	6	2	...
25	acre-feet...	...	...	...	...	302,182	302,182	...	88,300	213,882	...
26	Total leaving conveyance systems.....organizations...	4	25	18	7	83	49	...	12	8	29
27	acre-feet...	11,965	35,620	23,356	12,264	2,277,765	2,132,681	...	1,617,866	351,040	165,267
28	Conveyance loss in basin.....organizations...	4	24	18	6	81	49	...	12	8	29
29	acre-feet...	1,759	8,774	7,482	1,292	659,985	634,955	...	469,916	143,706	21,333
30	Conveyed to another drainage basin.....organizations...	1	...	...	...	...	1	...	1	...	...
31	acre-feet...	7,940	...	...	...	...	44,176	...	1,492	44,176	...
32	To drainage basin number.....D. B. No....	IV-B-3a	...	...	...	...	...	...	IV-C-1e	IV-C-3a	...
33	Delivered for use in the basin.....organizations...	4	25	18	7	82	48	...	12	7	29
34	acre-feet...	2,266	26,846	15,874	10,972	1,617,780	1,453,550	...	1,146,458	163,158	143,934
35	To farm irrigation water users.....organizations...	4	25	18	7	82	48	...	12	7	29
36	acre-feet...	2,266	26,004	15,477	10,527	1,484,829	1,323,997	...	1,018,400	161,793	143,804
37	To residential water users.....organizations...	...	5	3	2	9	4	...	2	...	2
38	acre-feet...	...	600	155	445	67,225	64,133	...	64,003	...	130
39	For other use.....organizations...	...	1	1	...	7	5	...	4	1	...
40	acre-feet...	...	242	242	...	65,726	65,420	...	64,055	1,365	...
41	Delivered to other irrigation organizations.....organizations delivering...	...	...	...	...	2	2	...	1	1	...
42	acre-feet...	...	...	...	...	302,182	302,182	...	88,300	213,882	...
43	Average delivery of irrigation water per acre irrigated as reported by organizations.....acre-feet...	3.3	1.7	2.8	1.1	3.3	3.2	...	3.3	2.4	3.4
	NEW CAPITAL INVESTMENT, 1950-1959										
44	Expenditures for additional new works and equipment for irrigation and drainage, Jan. 1, 1950-Dec. 31, 1959.....organizations...	1	7	5	2	53	35	...	10	5	20
45	dollars...	72,000	120,287	25,287	95,000	21,047,143	19,834,513	...	17,136,115	2,084,870	613,528

IRRIGATION OF AGRICULTURAL LANDS

State Table 1.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY DRAINAGE BASINS:
CENSUSES OF 1959 AND 1950—Continued

Item (For definitions and explanations, see text)	Gila River (IV-C)—Continued						Colorado River above Lee's Ferry (IV-D)		
	Verde River	Santa Cruz River			San Pedro River	Willcox Plays	Total	Colorado River direct; Below Cumeo, Colorado	San Juan River direct
		Total	Below Millito Gage	Above Millito Gage					
	(2)		(3a)	(3b)	(4)	(5)		(1a)	(2a)
1 Total acres irrigated in Census year.....1959...	14,000	230,000	193,000	37,000	8,000	48,000	1,000	...	1,000
2 .....1949...	11,966	230,277	210,969	19,308	5,992	13,968	6,386	...	6,386
3 Irrigation organizations.....organizations 1959...	22	9	5	4	3	3	29	2	27
4 .....1949...	25	11	7	4	2	...	23	...	23
5 Service area, 1959:									
6 Farm area reported served by organizations.....acres 1959...	8,536	29,208	25,758	3,450	13,471	3,080	(D)	(D)	(D)
7 Farm area reported irrigated by organizations.....acres 1959...	7,305	21,652	18,732	2,920	5,787	2,080	(D)	(D)	(D)
8 Water users served, total.....water users 1959...	378	1,140	999	141	92	1,292	(D)	(D)	(D)
9 Farm irrigation water users.....water users 1959...	346	359	266	93	92	49	(D)	(D)	(D)
10 Residential water users.....water users 1959...	31	777	729	48	...	1,243	(D)	(D)	(D)
11 Other water users.....water users 1959...	1	4	4	...	...	...	...	...	...
12 LAND IRRIGATED BY SOURCE OF WATER, 1959									
13 Ground water sources.....acres...	11,000	209,000	172,000	37,000	8,000	47,000	...	...	...
14 Surface water sources.....acres...	3,000	21,000	21,000	...	...	1,000	1,000	...	1,000
15 WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959									
16 Total entering conveyance systems in basin.....organizations...	22	9	5	4	3	3	29	2	27
17 .....acre-feet...	238,342	110,498	97,984	12,514	35,791	17,209	(D)	(D)	(D)
18 From another drainage basin.....organizations...	...	1	1	...	...	...	...	...	...
19 .....acre-feet...	...	44,176	44,176	...	...	...	...	...	...
20 From drainage basin number.....D. B. No. ....	...	...	IV-C-1c	...	...	...	...	...	...
21 From natural sources within basin.....organizations...	22	8	4	4	3	3	29	2	27
22 .....acre-feet...	238,342	66,322	53,808	12,514	35,791	17,209	(D)	(D)	(D)
23 Surface water.....organizations...	20	3	...	3	...	1	28	1	27
24 .....acre-feet...	227,089	9,713	...	9,713	...	400	(D)	(D)	(D)
25 Ground water.....organizations...	3	5	4	1	3	3	5	1	4
26 .....acre-feet...	11,253	56,609	53,808	2,801	35,791	16,809	(D)	(D)	(D)
27 From other organizations in the basin.....organizations receiving...	...	...	...	...	...	...	...	...	...
28 .....acre-feet...	...	...	...	...	...	...	...	...	...
29 Total leaving conveyance systems.....organizations...	22	9	5	4	3	3	29	2	27
30 .....acre-feet...	238,342	110,498	97,984	12,514	35,791	17,209	(D)	(D)	(D)
31 Conveyance loss in basin.....organizations...	20	8	4	4	3	3	28	1	27
32 .....acre-feet...	3,040	16,346	14,906	1,440	5,278	366	(D)	(D)	(D)
33 Conveyed to another drainage basin.....organizations...	1	...	...	...	...	...	...	...	...
34 .....acre-feet...	212,580	...	...	...	...	...	...	...	...
35 To drainage basin number.....D. B. No.	IV-C-1b	...	...	...	...	...	...	...	...
36 Delivered for use in the basin.....organizations...	21	9	5	4	3	3	29	2	27
37 .....acre-feet...	22,722	94,152	83,078	11,074	30,513	16,843	(D)	(D)	(D)
38 To farm irrigation water users.....organizations...	21	9	5	4	3	3	29	2	27
39 .....acre-feet...	22,635	91,635	80,647	10,988	30,513	16,049	(D)	(D)	(D)
40 To residential water users.....organizations...	2	2	1	1	...	1	7	1	6
41 .....acre-feet...	12	2,286	2,200	86	...	794	(D)	(D)	(D)
42 For other use.....organizations...	1	2	2	...	...	...	...	...	...
43 .....acre-feet...	75	231	231	...	...	...	...	...	...
44 Delivered to other irrigation organizations.....organizations delivering...	...	...	...	...	...	...	...	...	...
45 .....acre-feet...	...	...	...	...	...	...	...	...	...
46 Average delivery of irrigation water per acre irrigated as reported by organizations.....acre-feet...	3.1	4.2	4.3	3.8	5.3	7.7	(D)	(D)	(D)
47 NEW CAPITAL INVESTMENT, 1950-1959									
48 Expenditures for additional new works and equipment for irrigation and drainage, Jan. 1, 1950-Dec. 31, 1959.....organizations...	10	4	3	1	2	3	7	1	6
49 .....dollars...	266,884	679,000	599,000	80,000	219,246	47,500	(D)	(D)	(D)

D Data not shown to avoid disclosure of information for individual organizations.

State Table 2.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950

Item (For definitions and explanations, see text)	Arizona, total	Gulf of California (excluding Colorado River) and Gila River	Item (For definitions and explanations, see text)	Arizona, total	Gulf of California (excluding Colorado River) and Gila River
		(IV-A and C)			(IV-A and C)
Irrigation organizations, total			TYPE OF SERVICE, 1959		
number.....organizations 1959...	155	84	All water directly from surface and		
1949...	163	99	ground water sources.....organizations...	3,100,140	2,081,507
Area irrigated as reported by			Total water conveyed.....acre-feet...	2,378,826	1,489,396
organizations.....acres 1959...	643,846	455,358	Water delivered.....acre-feet...		
1949...	555,958	459,026	To farm and residential		
Farm water users served directly.....water users 1959...	12,555	9,064	users only.....organizations...	136	74
Total water conveyed.....acre-feet 1959...	4,562,142	2,583,097	acre-feet...	768,299	538,214
TYPE OF ORGANIZATION			To farm and residential users and other		
Mutual:			irrigation organizations.....organizations...	2	1
Unincorporated.....organizations 1959...	42	36	Water to farm and residential		
1949...	61	50	users.....acre-feet...	649,600	649,000
Farm area irrigated directly.....acres 1959...	17,583	16,723	Water to other irrigation		
Farm water users served			organizations.....acre-feet...	88,300	88,300
directly.....water users 1959...	587	544	To other irrigation organizations		
Total water conveyed.....acre-feet 1959...	80,205	77,676	only.....organizations...	2	1
Incorporated.....organizations 1959...	34	21	acre-feet...	872,627	213,882
1949...	27	27	Part of water from other		
Farm area irrigated directly.....acres 1959...	308,784	252,176	organizations.....organizations...	7	5
Farm water users served			Total water conveyed.....acre-feet...	630,007	280,408
directly.....water users 1959...	5,802	4,848	From surface and ground water		
Total water conveyed.....acre-feet 1959...	1,835,551	1,492,126	sources.....acre-feet...	161,463	199,408
District.....organizations 1959...	15	7	From other irrigation		
1949...	12	9	organizations.....acre-feet...	468,544	81,000
Farm area irrigated directly.....acres 1959...	187,068	96,426	Water delivered.....acre-feet...	489,253	230,132
Farm water users served			To farm and residential		
directly.....water users 1959...	1,636	740	users only.....organizations...	6	5
Total water conveyed.....acre-feet 1959...	1,033,978	385,417	acre-feet...	272,272	230,132
U. S. Bureau of Reclamation; projects and stor-			To farm and residential users and other		
age systems operated by bureau.....organizations 1959...	2	...	irrigation organizations.....organizations...	1	...
1949...	2	...	Water to farm and residential		
Farm area irrigated directly.....acres 1959...	3,082	...	users.....acre-feet...	215,191	...
Farm water users served			Water to other irrigation		
directly.....water users 1959...	92	...	organizations.....acre-feet...	1,790	...
Total water conveyed.....acre-feet 1959...	699,904	...	To other irrigation organizations		
only.....organizations.....acre-feet...			only.....organizations.....	...	...
U. S. Bureau of Reclamation; operated			All of water from other		
by water users.....organizations 1959...	5	1	organizations.....organizations...	8	3
1949...	NA	NA	Total water conveyed.....acre-feet...	831,811	221,182
Farm area irrigated directly.....acres 1959...	312,389	(D)	Water delivered.....acre-feet...	692,512	137,688
Farm water users served			To farm and residential		
directly.....water users 1959...	4,507	(D)	users only.....organizations...	7	3
Total water conveyed.....acre-feet 1959...	2,084,486	(D)	acre-feet...	492,199	137,688
U. S. Bureau of Indian Affairs.....organizations 1959...	59	17	To farm and residential users		
1949...	48	10	and other irrigation		
Farm area irrigated directly.....acres 1959...	125,574	88,278	organizations.....organizations...	1	...
Farm water users served			Water to farm residential		
directly.....water users 1959...	4,427	2,921	users.....acre-feet...	159,154	...
Total water conveyed.....acre-feet 1959...	897,605	612,979	Water to other irrigation		
only.....organizations.....acre-feet...			organizations.....acre-feet...	41,159	...
Commercial.....organizations 1959...	...	...	To other irrigation organizations		
1949...	1	1	only.....organizations.....	...	...
Farm area irrigated directly.....acres 1959...	...	...	acre-feet...	...	...
Farm water users served			No water conveyed.....organizations...	...	...
directly.....water users 1959...	...	...	
Total water conveyed.....acre-feet 1959...	...	...	WATER FROM OTHER SOURCES		
State.....organizations 1959...	1	1	Organizations reporting NO water from		
1949...	...	...	other sources used on land served		
Farm area irrigated directly.....acres 1959...	(D)	(D)	by the organization.....organizations...	124	54
Farm water users served			acres served.....	398,253	154,054
directly.....water users 1959...	(D)	(D)	acres irrigated.....	308,298	118,460
Total water conveyed.....acre-feet 1959...	(D)	(D)	Water delivered to farms.....acre-feet...	1,436,080	432,040
City.....organizations 1959...	2	2	acre-feet per acre...	4.7	3.6
1949...	2	2	Organizations reporting water from other		
Farm area irrigated directly.....acres 1959...	(D)	(D)	sources used on land served by the		
Farm water users served			organization.....organizations...	29	29
directly.....water users 1959...	(D)	(D)	acres served.....	369,969	369,969
Total water conveyed.....acre-feet 1959...	(D)	(D)	acres irrigated.....	337,322	337,322
			Water delivered to farms.....acre-feet...	1,056,145	1,056,145
			acre-feet per acre...	3.1	3.1

D Data not shown to avoid disclosure of information for individual organizations.

IRRIGATION OF AGRICULTURAL LANDS

State Table 2.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Continued

Item (For definitions and explanations, see text)	Arizona, total	Gulf of California (excluding Colorado River) and Gila River	Item (For definitions and explanations, see text)	Arizona, total	Gulf of California (excluding Colorado River) and Gila River
		(IV-A and C)			(IV-A and C)
WATER DELIVERED PER ACRE			SIZE OF ORGANIZATION—Continued		
Organizations reporting no water from other sources used on same land:			Size of organization (acre-feet of water delivered directly to farms):		
0.1 to 0.9 acre-feet per acre.....organizations...	8	5	None.....organizations...	2	1
acres irrigated...	3,784	3,044			
1.0 to 1.9 acre-feet per acre.....organizations...	26	5	1 to 299 acre-feet.....organizations...	45	14
acres irrigated...	14,539	2,330	acre-feet...	5,059	1,393
2.0 to 2.9 acre-feet per acre.....organizations...	29	12	300 to 999 acre-feet.....organizations...	34	21
acres irrigated...	59,918	54,154	acre-feet...	19,301	12,728
3.0 to 3.9 acre-feet per acre.....organizations...	23	9			
acres irrigated...	10,874	4,110	1,000 to 2,999 acre-feet.....organizations...	30	17
4.0 to 4.9 acre-feet per acre.....organizations...	11	7	acre-feet...	55,314	31,311
acres irrigated...	82,133	35,556	3,000 to 9,999.....organizations...	18	11
5.0 to 5.9 acre-feet per acre.....organizations...	17	12	acre-feet...	108,055	67,100
acres irrigated...	100,778	12,496			
6.0 to 6.9 acre-feet per acre.....organizations...	2	...	10,000 to 29,999 acre-feet.....organizations...	10	10
acres irrigated...	8,270	...	acre-feet...	172,809	172,809
7.0 to 7.9 acre-feet per acre.....organizations...	1	1	30,000 to 99,999 acre-feet.....organizations...	9	7
acres irrigated...	60	60	acre-feet...	466,188	388,576
8.0 to 9.9 acre-feet per acre.....organizations...	5	3	100,000 or more acre-feet.....organizations...	7	3
acres irrigated...	24,720	6,710	acre-feet...	1,665,499	814,268
10.0 or more acre-feet per acre.....organizations...	2	...	Size of organization (acre-feet of water conveyed):		
acres irrigated...	3,222	...	None.....organizations...	...	...
SIZE OF ORGANIZATION			1 to 299 acre-feet.....organizations...	42	14
Size of organization (number of farm irrigation water users served directly):			acre-feet...	5,862	1,753
None.....organizations...	2	1	300 to 999 acre-feet.....organizations...	31	17
1 to 3.....organizations...	25	17	acre-feet...	19,500	11,122
water users...	58	41			
4 to 9.....organizations...	32	20	1,000 to 2,999 acre-feet.....organizations...	28	17
water users...	190	109	acre-feet...	54,381	32,217
10 to 29.....organizations...	34	14	3,000 to 9,999 acre-feet.....organizations...	21	12
water users...	979	244	acre-feet...	104,194	57,610
30 to 99.....organizations...	39	20			
water users...	2,147	1,023	10,000 to 29,999 acre-feet.....organizations...	13	11
100 to 299.....organizations...	16	6	acre-feet...	182,051	161,951
water users...	2,688	997	30,000 to 99,999 acre-feet.....organizations...	10	8
300 to 999.....organizations...	5	4	acre-feet...	579,627	488,348
water users...	1,874	1,558	100,000 or more acre-feet.....organizations...	10	5
1,000 or more.....organizations...	2	2	acre-feet...	9,576,626	1,830,541
water users...	5,158	5,158			

State Table 3.—LAND IRRIGATED BY SOURCE OF WATER, BY DRAINAGE BASINS: CENSUS OF 1959

	Item (For definitions and explanations, see text)	Arizona, total	Gila River (IV-C)	Gulf of California excluding Colorado River (IV-A)
1	Total acres irrigated.....farms reporting...	5,391	4,278	171
2	acres...	1,152,450	960,873	21,825
3	Acres irrigated by sprinklers.....farms reporting...	113	96	...
4	acres...	4,635	4,227	...
5	Sprinklers only.....farms reporting...	73	65	...
6	acres...	3,157	2,913	...
	LAND IRRIGATED, BY SOURCE OF WATER TO INDIVIDUAL FARMS, 1959			
	Ground water sources on farm.....farms reporting...	2,159	1,818	167
8	acres...	581,238	530,392	21,753
9	Ground water sources on farm only..farms reporting...	1,499	1,215	166
10	acres...	408,794	369,693	21,729
11	Surface sources on farm.....farms reporting...	300	223	3
12	acres...	94,845	82,941	71
13	Surface sources on farm only.....farms reporting...	210	152	3
14	acres...	85,836	76,923	71
15	Irrigation organization sources.....farms reporting...	3,608	2,849	1
16	acres...	476,367	347,540	1
17	Irrigation organization sources only.....farms reporting...	3,007	2,299	1
18	acres...	332,151	219,310	1
19	Both farm ground water sources and surface sources.....farms reporting...	73	60	1
20	acres...	28,499	24,969	24
21	Both irrigation organization and farm ground water or farm surface sources.....farms reporting...	602	552	...
22	acres...	297,170	269,978	...

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950

Item (For definitions and explanations, see text)	Arizona, total							
	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other	
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users		
Irrigation organizations.....organizations 1959...	155	42	34	15	2	5	62	
1949.....	163	61	37	12	2	NA	51	
Service area, 1959:								
Area served, as reported								
by organizations.....acres...	766,448	18,136	339,139	216,383	3,304	341,354	189,486	
Area irrigated, as reported								
by organizations.....acres...	643,846	17,583	308,784	187,068	3,082	312,389	127,329	
Water users served, 1959, total.....water users...	43,729	644	35,155	2,946	92	32,839	4,892	
Farm irrigation water users.....water users...	12,555	587	5,802	1,636	92	4,507	4,438	
Residential water users.....water users...	27,727	57	25,946	1,294	...	24,922	430	
Other water users.....water users...	3,447	...	3,407	16	...	3,410	24	
TYPE OF SERVICE, 1959								
All water directly from surface and ground								
water sources.....organizations...	140	42	32	9	1	1	56	
Total water conveyed.....acre-feet...	3,100,324	80,205	1,436,696	263,635	658,745	975,885	661,043	
Water delivered.....acre-feet...	2,378,826	73,826	961,144	208,654	658,745	737,300	476,457	
To farm and residential users								
only.....organizations...	136	42	30	9	...	...	55
acre-feet...	768,299	73,826	223,244	208,654	...	...	262,575
To farm and residential users and other								
irrigation organizations.....organizations...	2	...	2	...	...	1	...
Water to farm and residential								
users.....acre-feet...	649,600	...	649,600	...	...	649,000	...
Water to other irrigation								
organizations.....acre-feet...	88,300	...	88,300	...	...	88,300	...
To other irrigation organizations								
only.....organizations...	2	...	...	...	1	...	1
acre-feet...	872,627	...	...	...	658,745	...	213,882
Part of water from other								
organizations.....organizations...	7	...	2	3	...	2	2	
Total water conveyed.....acre-feet...	630,007	...	398,855	195,363	...	431,489	35,789	
From surface and ground water								
sources.....acre-feet...	161,463	...	96,376	63,298	...	43,945	1,789	
From other irrigation organizations.....acre-feet...	468,544	...	302,479	132,065	...	387,544	34,000	
Water delivered.....acre-feet...	469,253	...	296,251	160,999	...	259,101	31,743	
To farm and residential users								
only.....organizations...	6	...	1	3	...	1	2	
acre-feet...	272,272	...	79,370	160,999	...	42,120	31,743	
To farm and residential users and other								
irrigation organizations.....organizations...	1	...	1	...	...	1	...
Water to farm and residential								
users.....acre-feet...	215,191	...	215,191	...	...	215,191	...
Water to other irrigation								
organizations.....acre-feet...	1,790	...	1,790	...	...	1,790	...
To other irrigation organizations								
only.....organizations...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
All of water from other organizations.....organizations...	8	...	...	...	...	...	...
Total water conveyed.....acre-feet...	831,811	...	...	574,980	41,159	567,680	215,672
Water delivered.....acre-feet...	692,512	...	...	524,442	35,492	517,542	132,578
To farm and residential users								
only.....organizations...	7	...	...	2	1	1	4
acre-feet...	492,199	...	...	324,129	35,492	317,229	132,578
To farm and residential users and other								
irrigation organizations.....organizations...	1	...	...	1	...	1	...
Water to farm and residential								
users.....acre-feet...	159,154	...	...	159,154	...	159,154	...
Water to other irrigation								
organizations.....acre-feet...	41,159	...	...	41,159	...	41,159	...
To other irrigation organizations								
only.....organizations...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
No water conveyed.....organizations...	...	...	...	...	...	...	...
WATER FROM OTHER SOURCES								
Organizations reporting no water from other								
sources used on the land served by the								
organization.....organizations...	124	32	20	11	1	4	60	
acres served.....	398,253	14,111	94,051	138,525	3,304	151,354	148,262	
acres irrigated.....	308,298	13,740	67,996	120,073	3,082	123,389	103,407	
water delivered to farms (acre-feet)...	1,436,080	65,026	294,497	665,447	35,492	733,274	375,618	
acre-feet per acre...	4.7	4.8	4.3	5.5	11.9	5.9	3.6	
Organizations reporting water from other								
sources used on land served by the								
organization.....organizations...	29	10	14	4	...	1	1	
acres served.....	369,969	4,449	246,438	77,838	...	190,000	41,224	
acres irrigated.....	337,322	4,267	242,138	66,995	...	186,000	23,922	
water delivered to farms (acre-feet)...	1,056,145	9,068	810,497	186,608	...	585,000	50,012	
acre-feet per acre...	3.1	2.1	3.3	2.8	...	3.1	2.1	
NEW CAPITAL INVESTMENT, 1950-1959								
Expenditures for additional new works and								
equipment for irrigation and drainage:								
January 1, 1950-December 31, 1959.....organizations...	76	15	22	12	...	5	24	
By U. S. B. R.....dollars...	31,803,546	...	...	31,803,546	...	31,803,546	...
By water users organizations.....dollars...	31,121,067	93,385	16,514,411	2,958,493	...	15,058,951	11,554,778	

See footnotes at end of table.

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

Item (For definitions and explanations, see text)	Arizona, total						
	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users	
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
Total entering conveyance systems.....organizations... acre-feet.....	155 3,558,266	42 80,205	34 1,829,551	15 326,933	2 658,745	5 1,425,741	62 662,832
From another drainage basin.....organizations... acre-feet.....	1 299,479	... ...	1 299,479	... ...	... ...	1 299,479	......
From drainage basin.....D. B. No.....	...	...	...	...	...	...	...
From sources within basin.....organizations... acre-feet.....	146 3,258,787	42 80,205	33 1,530,072	12 326,933	1 658,745	3 1,126,262	58 662,832
Surface water.....organizations... acre-feet.....	117 1,991,449	35 24,568	27 825,057	7 1-2,094	1 658,745	2 643,648	47 485,173
Ground water.....organizations... acre-feet.....	63 1,267,338	16 55,637	21 705,015	9 329,027	...	1 482,614	17 177,659
From other organizations in the basin.....organizations receiving... acre-feet.....	14 1,003,876	... ...	1 6,000	6 707,045	1 41,159	3 658,745	6 249,672
Total leaving conveyance systems.....organizations... acre-feet.....	155 3,558,266	42 80,205	34 1,745,461	15 992,819	2 41,159	5 1,953,057	62 698,622
Conveyance loss in basin.....organizations... acre-feet.....	148 925,506	42 6,379	32 505,679	13 137,876	1 5,667	5 505,468	60 269,905
Conveyed to another drainage basin.....organizations... acre-feet.....	1 7,940	... ...	1 7,940	......	......	......	......
To drainage basin number.....D. B. No.....	...	...	...	...	...	...	...
Delivered for use in the basin.....organizations... acre-feet.....	153 2,624,820	42 73,826	34 1,231,842	15 854,943	1 35,492	5 1,447,589	61 428,717
To farm irrigation water users.....organizations... acre-feet.....	153 2,487,199	42 73,736	34 1,100,284	15 852,055	1 35,492	5 1,318,274	61 425,630
To domestic water users.....organizations... acre-feet.....	24 69,516	8 88	3 67,321	3 841	...	2 64,240	11 1,266
For other use.....organizations... acre-feet.....	10 68,105	... ...	4 64,237	3 2,047	...	2 65,075	3 1,821
Delivered to other irrigation organizations.....organizations delivering... acre-feet.....	5 1,003,876	... ...	2 90,090	1 41,159	1 658,745	3 131,249	1 213,882
SIZE OF ORGANIZATION, 1959							
Size of organization (number of farm irrigation water users):							
None.....organizations...	2	...	...	...	1	...	1
1 to 3 water users.....organizations...	2	13	2	1	...	...	9
4 to 9 water users.....organizations...	32	19	3	...	...	...	10
10 to 29 water users.....organizations...	34	8	5	...	...	...	21
30 to 99 water users.....organizations...	39	1	16	8	1	13	5
100 to 299 water users.....organizations...	16	...	6	5	...	2	13
300 to 999 water users.....organizations...	5	1	1	1	...	1	2
1,000 or more water users.....organizations...	2	...	1	...	...	1	1
Size of organization (acre-feet of water delivered directly to farms):							
None.....organizations...	2	...	...	...	1	...	1
1 to 299 acre-feet.....organizations...	45	17	2	...	...	...	26
300 to 999 acre-feet.....organizations...	34	14	5	...	...	...	15
1,000 to 2,999 acre-feet.....organizations...	30	9	7	3	...	...	11
3,000 to 9,999 acre-feet.....organizations...	18	1	9	5	...	...	3
10,000 to 29,999 acre-feet.....organizations...	10	...	8	...	...	...	1
30,000 to 99,999 acre-feet.....organizations...	9	...	2	...	...	...	4
100,000 or more acre-feet.....organizations...	7	...	2	4	...	4	1
Size of organization (acre-feet of water conveyed):							
None.....organizations...	...	...	...	...	...	...	24
1 to 299 acre-feet.....organizations...	42	17	1	...	...	...	24
300 to 999 acre-feet.....organizations...	31	12	5	...	...	...	14
1,000 to 2,999 acre-feet.....organizations...	28	10	4	...	...	...	12
3,000 to 9,999 acre-feet.....organizations...	21	2	9	5	...	...	5
10,000 to 29,999 acre-feet.....organizations...	13	...	10	2	...	...	3
30,000 to 99,999 acre-feet.....organizations...	10	1	3	2	1	...	3
100,000 or more acre-feet.....organizations...	10	...	2	4	1	5	3

NA Not available.

*Water was transferred to the basin and released to natural stream channels in excess of the quantity of surface water withdrawn by irrigation organizations. The net effect was to increase the available surface water supply in the basin or State.

IRRIGATION OF AGRICULTURAL LANDS

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950-59.

Item (For definitions and explanations, see text)	Gulf of California (excluding Colorado River) and Gila River (IV-A and IV-C)						
	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users	
Irrigation organizations.....organizations 1959...	84	36	21	7	...	1	20
1949.....	99	50	27	9	...	NA	13
Service area, 1959:							
Area served, as reported							
by organizations.....acres...	523,599	17,106	264,191	107,289	...	(D)	135,013
Area irrigated, as reported							
by organizations.....acres...	455,358	16,723	252,176	96,426	...	(D)	90,033
Water users served, 1959, total.....water users...	39,440	601	33,875	1,990	...	(D)	2,974
Farm irrigation water users.....water users...	9,064	544	4,848	740	...	(D)	2,932
Residential water users.....water users...	26,945	57	25,624	1,244	...	(D)	20
Other water users.....water users...	3,431	...	3,403	6	...	(D)	22
TYPE OF SERVICE, 1959							
All water directly from surface and ground							
water sources.....organizations...	76	36	20	4	...	1	16
Total water conveyed.....acre-feet...	2,081,507	77,676	1,392,750	232,874	...	(D)	378,207
Water delivered.....acre-feet...	1,489,396	72,675	935,310	181,935	...	(D)	300,476
To farm and residential users							
only.....organizations...	74	36	19	4	...	...	15
acre-feet...	538,214	71,675	198,010	181,935	...	...	86,594
To farm and residential users and other							
irrigation organizations.....organizations...	1	...	1	...	...	1	...
Water to farm and residential							
users.....acre-feet...	649,000	...	649,000	...	...	(D)	...
Water to other irrigation							
organizations.....acre-feet...	88,300	...	88,300	...	...	(D)	...
To other irrigation organizations							
only.....organizations...	1	...	...	...	...	...	1
acre-feet...	213,882	...	...	...	...	...	213,882
Part of water from other							
organizations.....organizations...	5	...	1	2	...	...	2
Total water conveyed.....acre-feet...	280,408	...	99,376	145,243	...	...	35,789
From surface and ground water							
sources.....acre-feet...	199,408	...	93,376	104,243	...	...	1,789
From other irrigation organizations.....acre-feet...	81,000	...	6,000	41,000	...	...	34,000
Water delivered.....acre-feet...	230,152	...	79,570	118,839	...	...	31,743
To farm and residential users							
only.....organizations...	5	...	1	...	...	...	2
acre-feet...	230,152	...	79,570	118,839	...	...	31,743
To farm and residential users and other							
irrigation organizations.....organizations...	...	...	...	...	...	...	...
Water to farm and residential							
users.....acre-feet...	...	...	...	...	...	...	...
Water to other irrigation							
organizations.....acre-feet...	...	...	...	...	...	...	...
To other irrigation organizations							
only.....organizations...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
All of water from other organizations.....organizations...	3	...	...	1	...	...	2
Total water conveyed.....acre-feet...	221,282	...	...	7,300	...	...	213,882
Water delivered.....acre-feet...	137,688	...	...	6,900	...	...	130,788
To farm and residential users							
only.....organizations...	3	...	...	1	...	...	2
acre-feet...	137,688	...	...	6,900	...	...	130,788
To farm and residential users and other							
irrigation organizations.....organizations...	...	...	...	...	...	...	...
Water to farm and residential							
users.....acre-feet...	...	...	...	...	...	...	...
Water to other irrigation							
organizations.....acre-feet...	...	...	...	...	...	...	...
To other irrigation organizations							
only.....organizations...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
No water conveyed.....organizations...	...	...	...	...	...	...	...
WATER FROM OTHER SOURCES							
Organizations reporting no water from other							
sources used on the land served by the							
organization.....organizations...	54	26	7	3	...	...	18
acres served...	154,054	13,081	17,753	29,431	...	...	93,789
acres irrigated...	118,460	12,880	10,038	26,491	...	...	66,111
water delivered to farms (acre-feet)...	432,040	62,875	49,813	120,269	...	...	199,083
acre-feet per acre...	3.6	4.9	5.0	4.1	...	...	3.0
Organizations reporting water from other							
sources used on land served by the							
organization.....organizations...	29	10	14	4	...	1	1
acres served...	369,969	4,449	246,438	77,858	...	(D)	41,224
acres irrigated...	337,322	4,267	242,138	66,995	...	(D)	23,922
water delivered to farms (acre-feet)...	1,056,145	9,068	810,457	186,608	...	(D)	50,012
acre-feet per acre...	3.1	2.1	3.3	2.8	...	(D)	2.1
NEW CAPITAL INVESTMENT, 1950-1959							
Expenditures for additional new works and							
equipment for irrigation and drainage,							
January 1, 1950-December 31, 1959.....organizations...	54	14	18	6	...	1	16
By U. S. B. R.....dollars...	...	...	...	...	...	...	...
By water users organizations.....dollars...	21,547,143	91,885	15,188,825	2,733,925	...	(D)	3,532,478

See footnote at end of table.

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

Gulf of California (excluding Colorado River) and Gila River (IV-A and IV-C)							
Item (For definitions and explanations, see text)	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users	
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
Total entering conveyance systems.....organizations... acre-feet.....	84 2,280,915	36 77,676	21 1,486,126	7 337,117	...	1 (D)	20 379,996
From another drainage basin.....organizations... acre-feet.....	...	...	...	...	...	...	...
From drainage basin.....D. B. No.....	...	...	...	...	...	...	...
From sources within basin.....organizations... acre-feet.....	81 2,280,915	36 77,676	21 1,486,126	6 337,117	...	1 (D)	18 379,996
Surface water.....organizations... acre-feet.....	27 1,041,712	29 22,039	18 794,777	3 22,339	...	1 (D)	7 202,557
Ground water.....organizations... acre-feet.....	51 1,239,203	16 55,637	15 691,349	5 314,778	...	1 (D)	15 177,439
From other organizations in the basin.....organizations receiving... acre-feet.....	8 302,182	...	1 6,000	3 48,300	...	...	4 247,882
Total leaving conveyance systems.....organizations... acre-feet.....	84 2,280,915	36 77,676	21 1,403,826	7 385,417	...	1 (D)	20 413,996
Conveyance loss in basin.....organizations... acre-feet.....	82 660,135	36 6,001	19 413,251	7 77,583	...	1 (D)	20 163,300
Conveyed to another drainage basin.....organizations... acre-feet.....	...	...	...	...	...	...	...
To drainage basin number.....D. B. No.....	...	...	...	...	...	...	...
Delivered for use in the basin.....organizations... acre-feet.....	83 1,620,780	36 71,675	21 990,575	7 307,834	...	1 (D)	19 250,696
To farm irrigation water users.....organizations... acre-feet.....	83 1,487,829	36 71,587	21 860,270	7 306,877	...	1 (D)	19 249,095
To domestic water users.....organizations... acre-feet.....	9 67,225	2 88	3 66,310	2 797	...	1 (D)	2 30
For other use.....organizations... acre-feet.....	7 65,726	...	3 63,995	2 160	...	1 (D)	2 1,571
Delivered to other irrigation organizations.....organizations delivering... acre-feet.....	2 302,182	...	1 88,300	...	...	1 (D)	1 213,882
SIZE OF ORGANIZATION, 1959							
Size of organization (number of farm irrigation water users):							
None.....organizations...	1	...	...	...	...	(D)	1
1 to 3 water users.....organizations...	17	11	2	...	...	(D)	4
4 to 9 water users.....organizations...	20	17	...	...	...	(D)	3
10 to 29 water users.....organizations...	14	6	...	...	...	(D)	4
30 to 99 water users.....organizations...	20	1	11	4	...	(D)	4
100 to 299 water users.....organizations...	6	...	3	2	...	(D)	1
300 to 999 water users.....organizations...	4	1	...	1	...	(D)	2
1,000 or more water users.....organizations...	2	...	1	...	...	(D)	1
Size of organization (acre-feet of water delivered directly to farms):							
None.....organizations...	1	...	...	...	...	(D)	1
1 to 299 acre-feet.....organizations...	14	12	1	...	...	(D)	1
300 to 999 acre-feet.....organizations...	21	14	3	...	...	(D)	4
1,000 to 2,999 acre-feet.....organizations...	17	8	1	2	...	(D)	6
3,000 to 9,999 acre-feet.....organizations...	11	1	6	1	...	(D)	3
10,000 to 29,999 acre-feet.....organizations...	10	...	8	1	...	(D)	1
30,000 to 99,999 acre-feet.....organizations...	3	...	1	1	...	(D)	4
100,000 or more acre-feet.....organizations...	3	...	1	2	...	(D)	...
Size of organization (acre-feet of water conveyed):							
None.....organizations...	...	...	...	...	...	(D)	...
1 to 299 acre-feet.....organizations...	14	12	1	...	...	(D)	1
300 to 999 acre-feet.....organizations...	17	12	2	...	...	(D)	3
1,000 to 2,999 acre-feet.....organizations...	17	9	1	...	...	(D)	6
3,000 to 9,999 acre-feet.....organizations...	12	2	4	2	...	(D)	4
10,000 to 29,999 acre-feet.....organizations...	11	...	9	1	...	(D)	1
30,000 to 99,999 acre-feet.....organizations...	8	1	3	1	...	(D)	3
100,000 or more acre-feet.....organizations...	5	...	1	2	...	(D)	2

D Data not shown to avoid disclosure of information for individual organizations.
NA Not available.

IRRIGATION OF AGRICULTURAL LANDS

State Table 5.—NUMBER OF IRRIGATION ORGANIZATIONS, TYPE OF SERVICE, NEW CAPITAL INVESTMENT, AND WATER CONVEYED, BY SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUS OF 1959

Item (For definitions and explanations, see text)		Arizona, total				Gulf of California (excluding Colorado River), and Gila River (IV-A and IV-C)			
		Size of organization, by total water conveyed							
		0-999 acre-feet	1,000- 9,999 acre-feet	10,000- 99,999 acre-feet	100,000 or more acre-feet	0-999 acre-feet	1,000- 9,999 acre-feet	10,000- 99,999 acre-feet	100,000 or more acre-feet
1	Number of organizations.....organizations...	73	49	23	10	31	29	19	5
TYPE OF SERVICE									
2	All water directly from surface and ground sources.....organizations...	72	46	17	5	31	27	15	3
3	Total water conveyed.....acre-feet...	24,983	145,937	433,429	2,495,975	12,875	78,600	413,329	1,976,703
4	Water delivered.....acre-feet...	19,561	119,391	348,666	1,891,208	10,914	67,230	339,066	1,072,186
5	To farm and residential users only.....organizations...	72	46	16	2	27	15	1	1
6	To farm and residential users only.....acre-feet...	19,561	119,391	348,666	281,281	10,914	67,230	339,066	121,004
7	To farm and residential users and other irrigation organizations.....organizations...	...	...	...	1	...	...	...	1
8	Water to farm and residential users.....acre-feet...	...	...	600	649,000	...	...	...	649,000
9	Water to other irrigation organizations.....acre-feet...	...	...	...	88,300	...	...	...	88,300
10	To other irrigation organizations only.....organizations...	...	...	...	2	...	...	...	1
11	To other irrigation organizations only.....acre-feet...	...	...	...	872,627	...	...	...	213,882
12	Part of water from other organizations.....organizations...	...	1	4	2	...	1	3	1
13	Total water conveyed.....acre-feet...	...	3,482	193,553	432,972	...	3,482	143,433	133,493
14	From surface and ground water sources.....acre-feet...	...	482	56,488	104,493	...	482	97,433	101,493
15	From other irrigation organizations.....acre-feet...	...	3,000	137,065	328,479	...	3,000	46,000	32,000
16	Water delivered.....acre-feet...	...	1,741	162,267	325,245	...	1,741	120,147	108,264
17	To farm and residential users only.....organizations...	...	1	4	1	...	1	1	1
18	To farm and residential users only.....acre-feet...	...	1,741	162,267	108,264	...	1,741	120,147	108,264
19	To farm and residential users and other irrigation organizations.....organizations...	...	...	...	1	...	...	...	...
20	Water to farm and residential users.....acre-feet...	...	...	...	215,100	...	...	...	...
21	Water to other irrigation organizations.....acre-feet...	...	...	...	1,790	...	...	...	...
22	To other irrigation organizations only.....organizations...	...	...	...	...	...	...	...	...
23	To other irrigation organizations only.....acre-feet...	...	...	...	...	...	...	...	...
24	All of water from other organizations.....organizations...	1	2	2	3	...	1	1	1
25	Total water conveyed.....acre-feet...	379	8,711	134,696	688,025	...	7,300	93,537	120,345
26	Water delivered.....acre-feet...	379	8,311	85,388	548,434	...	6,900	49,896	80,892
27	To farm and residential users only.....organizations...	1	2	2	2	...	1	1	1
28	To farm and residential users only.....acre-feet...	379	8,311	85,388	398,121	...	6,900	49,896	80,892
29	To farm and residential users and other irrigation organizations.....organizations...	...	...	...	1	...	...	...	...
30	Water to farm and residential users.....acre-feet...	...	...	...	159,154	...	...	...	...
31	Water to other irrigation organizations.....acre-feet...	...	...	...	41,159	...	...	...	...
32	To other irrigation organizations only.....organizations...	...	...	...	...	...	...	...	...
33	To other irrigation organizations only.....acre-feet...	...	...	...	...	...	...	...	...
34	No water conveyed.....organizations...	...	...	...	...	...	...	...	...
WATER FROM OTHER SOURCES									
35	Organizations reporting NO water from other sources used on land served by the organization.....organizations...	68	39	11	6	26	19	7	2
36	On land served by the organization.....acres served...	17,904	57,949	66,616	255,784	4,460	20,952	51,642	77,000
37	On land served by the organization.....acres irrigated...	8,337	35,799	55,042	209,120	3,301	15,295	40,290	59,574
38	Organizations reporting water from other sources used on land served by the organization.....organizations...	5	10	12	2	5	10	12	2
39	On land served by the organization.....acres served...	1,101	15,091	125,797	228,020	1,101	15,091	125,797	228,020
40	On land served by the organization.....acres irrigated...	1,021	14,126	98,155	224,020	1,021	14,126	98,155	224,020
NEW CAPITAL INVESTMENT, 1950-1959									
41	Expenditures for additional new works and equipment for irrigation and drainage, January 1, 1950-December 31, 1959.....organizations...	21	28	19	8	13	21	16	4
42	On land served by the organization.....dollars...	114,900	1,905,083	2,714,247	58,190,383	91,100	1,640,728	2,546,247	17,269,068
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959									
43	Total entering conveyance systems in basin.....organizations...	73	49	23	10	31	29	19	5
44	From another drainage basin.....acre-feet...	24,983	146,419	489,917	2,896,947	12,875	79,082	510,762	1,678,196
45	From another drainage basin.....organizations...	...	...	...	1	...	...	...	...
46	From another drainage basin.....acre-feet...	...	...	...	299,479	...	...	...	...
47	From Drainage Basin number.....D. B. No.....	...	...	...	...	...	...	...	...
48	From natural sources within basin.....organizations...	72	47	21	6	31	28	18	4
49	From natural sources within basin.....acre-feet...	24,983	146,419	489,917	2,997,468	12,875	79,082	510,762	1,678,196
50	Surface water.....organizations...	64	33	15	5	25	17	12	3
51	Surface water.....acre-feet...	18,253	85,916	124,158	1,763,122	7,502	40,957	149,403	843,890
52	Ground water.....organizations...	18	22	19	4	14	15	18	4
53	Ground water.....acre-feet...	6,730	60,503	365,759	834,346	5,373	38,125	361,359	834,346
54	From other organizations in the basin.....organizations receiving...	1	3	6	1	...	...	...	...
55	From other organizations in the basin.....acre-feet...	379	11,711	271,761	720,025	...	10,300	139,537	152,345
56	Total leaving conveyance systems.....organizations...	73	49	23	10	31	29	19	5
57	From another drainage basin.....organizations...	25,362	158,130	761,678	2,613,096	12,875	89,382	650,299	1,528,359
58	Conveyance loss in basin.....organizations...	72	45	22	9	31	28	18	5
59	Conveyance loss in basin.....acre-feet...	5,347	28,345	156,700	735,114	1,886	13,411	140,473	504,365
60	Conveyed to another drainage basin.....organizations...	...	...	...	1	...	...	...	...
61	Conveyed to another drainage basin.....acre-feet...	...	...	7,940	...	...	...	...	...
62	Delivered for use in the basin.....D. B. No.....	...	...	...	...	...	...	...	...
63	Delivered for use in the basin.....organizations...	73	49	23	8	31	29	19	4
64	Delivered for use in the basin.....acre-feet...	20,015	129,785	597,038	1,877,982	10,989	75,971	509,826	1,023,994
65	To farm irrigation water users.....organizations...	73	49	23	8	31	29	19	4
66	To farm irrigation water users.....acre-feet...	19,671	124,929	596,208	1,746,391	10,912	72,761	508,996	895,160
67	To residential water users.....organizations...	9	10	2	3	1	5	12	3
68	To residential water users.....acre-feet...	269	4,514	113	64,620	2	3,110	113	64,000
69	For other use.....organizations...	1	2	2	5	1	2	2	3
70	Delivered to other irrigation organizations.....organizations delivering...	75	342	717	66,971	75	100	717	64,834
71	Delivered to other irrigation organizations.....acre-feet...	...	...	...	...	...	...	...	...
72	Delivered to other irrigation organizations.....acre-feet...	...	...	...	1,003,876	...	...	...	302,182
AVERAGE DELIVERY OF IRRIGATION WATER PER ACRE, 1959									
Per acre irrigated, as reported by irrigation organization:									
73	All organizations.....acre-feet...	2.1	2.5	3.9	4.0	2.5	2.5	3.7	3.2
74	Organizations reporting NO water from other sources used on land served by the organization.....organizations...	68	39	11	6	26	19	7	2
75	On land served by the organization.....acre-feet...	2.1	2.7	5.1	5.0	2.6	3.0	4.7	3.2

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IRRIGATION OF AGRICULTURAL LANDS

State Table 1.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS,

	Item (For definitions and explanations, see text)	The State	North Pacific Coast (I-A)					South Pacific Coast, total	Klamath River (II-A)	
			Total	Pacific Coast direct	Rogue River				Total	Klamath River direct and Lower Klamath Lake
					Total	Illinois River	Applegate River			
				(1)		(4b)	(4c)			(1, 5)
1	Total acres irrigated in Census year.....1959...	7,395,970	3,000	3,000	...	...	...	6,654,000	148,000	24,000
2	1949...	6,598,839	1,906	1,906	...	...	...	5,855,060	144,873	18,450
3	Irrigation organizations.....organizations 1959...	1,075	...	...	...	...	...	1,047	27	6
4	1949...	1,506	...	...	...	...	...	1,459	28	5
5	Service area, 1959: Farm area reported served by organizations.....acres 1959...	5,293,986	...	...	...	...	...	4,618,981	121,291	17,887
6	Farm area reported irrigated by organizations.....acres 1959...	4,184,482	...	...	...	...	...	3,540,043	114,377	16,948
7	Water users served, total.....water users 1959...	1,152,970	...	...	...	...	...	1,134,858	1,720	277
8	Farm irrigation water users.....water users 1959...	116,037	...	...	...	...	...	108,427	1,444	252
9	Residential water users.....water users 1959...	1,018,384	...	...	...	...	...	1,007,884	270	19
10	Other water users.....water users 1959...	18,549	...	...	...	...	...	18,547	6	6
LAND IRRIGATED BY SOURCE OF WATER, 1959										
11	Ground water sources.....acres...	3,992,790	3,000	3,000	...	...	...	3,874,000	29,000	10,000
12	Surface water sources.....acres...	3,402,780	...	...	...	...	...	2,780,000	119,000	14,000
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959										
13	Total entering conveyance systems in basin.....organizations...	1,066	...	...	...	...	...	1,041	26	6
14	acre-feet...	17,321,855	...	...	...	...	...	12,882,010	478,093	59,179
15	From another drainage basin.....organizations...	2	...	...	...	...	...	5	2	...
16	acre-feet...	387,033	...	...	...	...	...	974,492	387,033	...
17	From drainage basin number.....D. B. No...	...	...	...	...	...	...	...	...	...
18	From natural sources within basin...organizations...	968	...	...	...	...	...	942	25	6
19	acre-feet...	16,934,822	...	...	...	...	...	11,907,518	91,060	59,179
20	Surface water.....organizations...	364	...	...	...	...	...	346	25	6
21	acre-feet...	15,276,039	...	...	...	...	...	10,271,080	55,459	40,044
22	Ground water.....organizations...	688	...	...	...	...	...	675	4	2
23	acre-feet...	1,658,783	...	...	...	...	...	1,636,438	35,601	19,135
24	From other organizations in the basin.....organizations receiving...	219	...	...	...	...	...	214	...	...
25	acre-feet...	11,546,796	...	...	...	...	...	3,801,077	...	...
26	Total leaving conveyance systems.....organizations...	1,066	...	...	...	...	...	1,041	26	6
27	acre-feet...	17,321,855	...	...	...	...	...	12,882,010	478,093	59,179
28	Conveyance loss in basin.....organizations...	436	...	...	...	...	...	412	25	5
29	acre-feet...	3,412,068	...	...	...	...	...	2,493,431	198,190	2,974
30	Conveyed to another drainage basin...organizations...	2	...	...	...	...	...	...	...	...
31	acre-feet...	302,779	...	...	...	...	...	...	...	...
32	To drainage basin number.....D. B. No...	...	...	...	...	...	...	...	...	...
33	Delivered for use in the basin.....organizations...	1,046	...	...	...	...	...	1,022	26	6
34	acre-feet...	13,607,008	...	...	...	...	...	10,388,579	279,903	56,205
35	To farm irrigation water users...organizations...	1,039	...	...	...	...	...	1,016	26	6
36	acre-feet...	12,350,452	...	...	...	...	...	9,171,475	276,962	53,899
37	To residential water users.....organizations...	237	...	...	...	...	...	224	5	3
38	acre-feet...	828,036	...	...	...	...	...	788,587	1,627	992
39	For other use.....organizations...	83	...	...	...	...	...	82	1	1
40	acre-feet...	428,520	...	...	...	...	...	428,517	1,314	1,314
41	Delivered to other irrigation organizations.....organizations delivering...	96	...	...	...	...	...	92	...	...
42	acre-feet...	11,546,796	...	...	...	...	...	3,801,077	...	...
43	Average delivery of irrigation water per acre irrigated as reported by organizations...acre-feet...	3.0	...	...	...	...	...	2.6	2.4	3.2
NEW CAPITAL INVESTMENT, 1950-1959										
44	Expenditures for additional new works and equipment for irrigation and drainage, Jan. 1, 1950-Dec. 31, 1959.....organizations...	487	...	...	...	...	...	474	17	1
45	dollars...	495,970,922	...	...	...	...	...	471,031,972	50,694,304	30,000

¹382,419 acre-feet from D. B. No. II-A-6, Oregon; 4,614 acre-feet from D. B. No. II-A-7, Oregon.

²Water was transferred to the basin and released to natural stream channel in excess of the quantity of surface water withdrawn by irrigation organizations. The net effect was to increase the available surface water supply in the basin or State.

BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950

Klamath River (II-A)—Continued				Klamath River to Santa Maria River excluding Central Valley (II-B)								
Trinity River	Scott River	Shasta River	Lost River	Total	Pacific Coast direct	Russian River	San Francisco Bay				Pajaro River	Salinas River
							Total	San Francisco Bay direct and Suisun Bay (3a,b)	Alameda Creek (3c)	Santa Clara Valley (3d)		
(2)	(3)	(4)	(6)		(1)	(2)		(3a,b)	(3c)	(3d)	(4)	(5)
4,000 3,899	19,000 14,947	46,000 44,337	55,000 63,280	493,000 386,613	64,000 46,957	31,000 16,194	134,000 117,027	39,000 24,847	23,000 18,411	72,000 73,769	77,000 66,557	187,000 139,878
4 2	6 10	9 10	3 1	39 54	7 7	3 2	14 22	7 5	... 2	7 15	7 11	9 12
5,340	9,741	25,125	63,198	34,349	3,148	5,503	17,973	11,223	...	6,750	920	6,805
5,134	8,231	20,866	63,198	30,646	2,963	4,558	15,447	8,722	...	6,725	873	6,805
61	88	511	783	110,163	12,410	90	95,368	1,372	...	93,996	26	2,269
61	88	260	783	1,332	122	88	909	525	...	384	26	187
...	...	251	...	97,373	10,583	2	84,708	772	...	83,936	...	2,080
...	...	...	...	11,458	1,705	...	9,751	75	...	9,676	...	2
...	4,000	8,000	7,000	415,000	43,000	17,000	107,000	22,000	19,000	66,000	68,000	180,000
4,000	15,000	38,000	48,000	78,000	21,000	14,000	27,000	17,000	4,000	6,000	9,000	7,000
3 10,855	6 24,853	9 78,776	2 304,430	39 223,169	7 151,753	3 14,946	14 151,400	7 85,055	...	7 66,345	7 7,221	9 35,918
...	...	...	2 387,033	1 68,669	...	1 138,069	1 68,669	1 68,669	...	...	...	...
...	...	...	(1)	...	...	II-B-1	...	II-B-1	...	...	...	...
3 10,855	6 24,853	9 78,776	1 2-82,603	36 154,500	7 151,753	3 2-123,123	11 82,731	4 16,386	...	7 66,345	7 7,221	9 35,918
3 10,855	6 24,853	9 76,886	1 2-97,179	16 70,379	5 145,336	3 2-123,123	6 37,816	3 15,450	...	3 22,366	2 5,850	1 4,500
...	...	1	1	24	3	...	7	2	...	5	6	8
...	...	1,890	14,576	84,121	6,417	...	44,915	936	...	43,979	1,371	31,418
...	...	...	...	7	...	1	5	4	...	1	...	1
...	...	...	...	20,220	...	4,400	265	238	...	27	...	15,555
3 10,855	6 24,853	9 78,776	2 304,430	39 223,169	7 151,753	3 14,946	14 151,400	7 85,055	...	7 66,345	7 7,221	9 35,918
3 538	6 2,509	9 16,207	2 175,962	10 11,971	3 1,137	1 4,099	3 4,345	1 4,490	...	2 55	1 40	2 2,190
...	...	...	...	...	1	...	...	...	...	...	...	...
...	...	...	...	...	138,069	...	...	...	...	...	...	...
...	...	...	...	...	II-B-2	...	...	...	...	...	...	...
3 10,317	6 22,344	9 62,569	2 128,468	35 211,198	6 12,547	2 10,847	14 146,855	7 80,565	...	7 66,290	7 7,181	6 33,768
3 10,317	6 22,344	9 61,934	2 128,468	34 87,414	6 6,791	2 10,835	14 36,026	7 22,293	...	7 13,733	6 1,631	3 32,131
...	...	2	...	10	2	1	6	4	...	2	...	1
...	...	635	...	46,074	3,876	12	41,203	956	...	40,247	...	983
...	...	...	...	6	1	...	3	1	...	2	1	1
...	...	...	...	77,710	1,880	...	69,626	57,316	...	12,310	5,550	654
...	...	...	...	6	...	1	2	1	...	1	...	3
...	...	...	...	20,220	...	4,400	265	238	...	27	...	15,555
2.0	2.7	3.0	2.0	3.0	4.0	2.4	2.3	2.6	...	2.0	1.9	4.7
3 46,513,597	4 45,800	7 194,200	2 3,910,707	14 11,593,453	2 18,400	1 12,000	7 11,500,705	4 1,131,403	...	3 10,369,302	3 7,648	1 54,700

IRRIGATION OF AGRICULTURAL LANDS

State Table 1.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS.

Item (For definitions and explanations, see text)	Central Valley, total	Sacramento-San Joaquin Delta area (II-C)						Sacramento River (II-D)		
		Total	Delta and west side lands	Morris Creek area	Consumes River	Mokelumne River area	Calaveras River area	Total	Sacramento River direct	
									Total	Below Colusa
		(1)	(2)	(3)	(4)	(5)			(1a)	
1 Total acres irrigated in Census year.....1959...	5,465,000	736,000	402,000	38,000	45,000	95,000	158,000	1,194,000	597,000	359,000
2 1949.....	4,668,895	547,330	345,906	18,449	22,807	75,429	84,739	959,333	461,427	273,874
3 Irrigation organizations.....organizations 1959...	354	43	32	...	...	...	5	96	38	17
4 1949.....	477	40	30	...	4	2	6	99	43	18
5 Service area, 1959:										
6 Farm area reported served by organizations.....acres 1959...	3,743,340	289,166	165,875	...	3,380	12,837	107,074	752,724	416,087	179,834
7 Farm area reported irrigated by organizations.....acres 1959...	3,090,342	261,011	159,056	...	2,250	12,725	92,980	526,084	300,385	141,037
8 Water users served, total.....water users 1959...	110,589	5,984	1,516	...	8	1,380	3,080	38,036	10,048	6,743
9 Farm irrigation water users.....water users 1959...	78,043	4,913	1,413	...	8	412	3,080	11,539	6,176	3,441
10 Residential water users.....water users 1959...	32,329	1,067	101	...	...	966	...	26,295	3,866	3,300
Other water users.....water users 1959...	217	4	2	...	...	2	...	202	6	2
LAND IRRIGATED BY SOURCE OF WATER, 1959										
11 Ground water sources.....acres...	2,985,000	281,000	55,000	31,000	35,000	66,000	94,000	479,000	222,000	138,000
12 Surface water sources.....acres...	2,480,000	455,000	347,000	7,000	10,000	27,000	64,000	715,000	375,000	221,000
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959										
13 Total entering conveyance systems in basin.....organizations...	350	42	32	...	3	4	5	93	37	17
14 acre-feet.....	10,756,668	2,396,450	1,901,668	...	35,631	106,531	393,820	3,466,508	2,103,634	888,015
15 From another drainage basin.....organizations...	1	2	2	...	...	...	2	3	4	5
16 acre-feet.....	8,000	345,200	41,200	...	...	...	345,200	22,631	286,009	407,949
17 From drainage basin number.....D. B. No. ....	...	...	(1)	...	...	...	II-B-2	...	...	(2)
18 From natural sources within basin.....organizations...	304	39	30	...	3	3	5	88	37	16
19 acre-feet.....	10,748,668	2,051,250	1,860,468	...	35,631	106,531	48,620	3,443,727	1,817,625	480,066
20 Surface water.....organizations...	237	37	30	...	3	3	2	83	34	16
21 acre-feet.....	9,921,568	2,007,510	1,851,848	...	35,631	106,531	13,500	3,407,240	1,789,416	480,006
22 Ground water.....organizations...	95	5	2	...	...	...	3	9	5	1
23 acre-feet.....	827,100	43,740	8,620	...	...	...	35,120	36,637	28,209	60
24 From other organizations in the basin.....organizations receiving...	89	4	3	...	...	1	...	19	5	2
25 acre-feet.....	3,199,016	41,033	38,864	...	...	2,169	...	789,954	45,547	36,161
26 Total leaving conveyance systems.....organizations...	350	42	32	...	3	4	5	93	37	17
27 acre-feet.....	10,756,668	2,396,450	1,901,668	...	35,631	106,531	393,820	3,466,508	2,103,634	888,015
28 Conveyance loss in basin.....organizations...	231	26	16	...	2	4	5	73	32	14
29 acre-feet.....	2,191,778	195,300	70,416	...	12,500	16,178	96,206	758,586	410,110	153,627
30 Conveyed to another drainage basin.....organizations...	1	6	5	...	1	1	1	...	4	1
31 acre-feet.....	68,669	1,419,418	1,409,850	...	9,631	29,200	12,000	...	173,590	107,900
32 To drainage basin number.....D. B. No. ....	...	...	(*)	...	II-D-2	II-D-1	II-D-1	...	...	II-D-2
33 Delivered for use in the basin.....organizations...	343	38	29	...	2	4	5	89	37	17
34 acre-feet.....	8,496,221	781,669	421,402	...	13,500	61,153	285,614	2,707,922	1,519,974	626,488
35 To farm irrigation water users.....organizations...	343	37	28	...	2	4	5	89	37	17
36 acre-feet.....	8,165,743	752,000	393,236	...	13,500	59,650	285,614	2,579,250	1,510,382	619,275
37 To residential water users.....organizations...	38	4	3	...	...	1	...	17	5	2
38 acre-feet.....	108,670	29,069	28,152	...	...	917	...	73,648	5,216	2,909
39 For other use.....organizations...	23	3	1	...	...	2	...	12	2	1
40 acre-feet.....	221,808	600	14	...	...	586	...	55,024	4,376	4,304
41 Delivered to other irrigation organizations.....organizations delivering...	27	2	1	...	...	1	...	11	3	2
42 acre-feet.....	3,199,016	41,033	38,864	...	...	2,169	...	789,954	45,547	36,161
43 Average delivery of irrigation water per acre irrigated as reported by organizations.....acre-feet...	2.6	2.9	2.6	...	6.0	4.7	3.1	4.9	5.0	4.4
NEW CAPITAL INVESTMENT, 1950-1959										
44 Expenditures for additional new works and equipment for irrigation and drainage, Jan. 1, 1950-Dec. 31, 1959.....organizations...	199	31	24	...	2	4	2	49	21	10
45 dollars.....	277,359,158	18,551,936	7,315,379	...	9,753,700	784,857	700,000	60,331,063	6,370,334	3,335,321

¹29,200 acre-feet from D. B. No. II-C-4, 12,000 acre-feet from D. B. No. II-C-5, ²121,940 acre-feet from D. B. No. II-D-1b, 32,700 acre-feet from D. B. No. II-D-5a, 253,309 acre-feet from D. B. No. II-D-5b, ³107,900 acre-feet from D. B. No. II-D-1a, 9,631 acre-feet from D. B. No. II-C-3, ⁴5,000 acre-feet from D. B. No. II-C-1, 28,100 acre-feet from D. B. No. II-D-4, ⁵135,097 acre-feet from D. B. No. II-D-5c, 8,000 acre-feet from D. B. No. III-C-2b, ⁶299,773 acre-feet from D. B. No. II-D-5e, 8,838 acre-feet from D. B. No. II-D-2, ⁷426,770 acre-feet from D. B. No. II-D-5a, 64,350 acre-feet from D. B. No. II-D-1b, ⁸Water was transferred to the basin and released to natural stream channels in excess of the quantity of surface water withdrawn by irrigation organizations. The net effect was to increase the available surface water supply in the basin or State. ⁹5,000 acre-feet to D. B. No. II-D-3, 68,669 acre-feet to D. B. No. II-B-3b, 1,336,181 acre-feet to D. B. No. II-F-1a, ¹⁰121,940 acre-feet to D. B. No. II-D-1a, 1,300 acre-feet to D. B. No. II-D-7, 64,350 acre-feet to D. B. No. II-D-6, ¹¹426,770 acre-feet to D. B. No. II-D-6, 32,700 acre-feet to D. B. No. II-D-5a, ¹²299,773 acre-feet to D. B. No. II-D-5b, 135,097 acre-feet to D. B. No. II-D-5a.

BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Continued

Sacramento River (II-D)—Continued											
Sacramento River direct—Continued		American River	Putah Creek	Feather River				Butte Creek	Cache Creek and Stoney Creek	Cow Creek	Pit River
Colusa to Red Bluff	Above Red Bluff			Total	Feather River direct	Bear River	Yuba River				
(1b)	(1c)	(2)	(3)		(5a)	(5b)	(5c)	(6)	(4, 7)	(8)	(9)
210,000	28,000	20,000	51,000	216,000	178,000	21,000	17,000	89,000	122,000	8,000	91,000
164,243	23,310	19,663	37,143	177,898	152,962	14,204	10,732	83,433	76,882	7,173	95,734
16	7	12	5	23	19	3	7	5	4	10	9
19	8	12	2	25	21	2	8	9	4	9	10
207,153	29,100	14,686	22,359	108,037	84,283	11,554	12,200	72,190	80,430	4,445	34,490
133,113	26,235	12,383	8,159	83,658	62,197	9,761	11,700	49,472	35,190	3,855	32,982
2,056	1,249	13,789	60	8,613	4,071	1,185	3,357	4,491	868	70	97
1,971	764	1,157	55	2,757	1,725	715	317	361	868	68	97
85	481	12,466	...	5,831	2,337	470	3,024	4,130	...	2	...
...	4	166	5	25	9	...	16	...	...	...	...
79,000	5,000	7,000	37,000	88,000	72,000	11,000	5,000	41,000	74,000	1,000	9,000
131,000	23,000	13,000	14,000	128,000	106,000	10,000	12,000	48,000	48,000	7,000	82,000
16	6	11	5	23	19	3	7	5	4	9	13
1,161,903	175,656	106,875	33,250	1,383,892	942,022	321,384	555,356	422,551	233,898	24,869	80,806
...	...	2	2	2	4	3	...	4	1	...	...
...	...	117,531	33,100	16,838	143,097	308,611	...	491,120	1,300	...	...
...	...	(3)	(4)	...	(5)	(6)	...	(7)	II-D-1b	...	...
16	6	10	2	20	16	3	6	4	3	9	9
1,161,903	175,656	106,875	150	1,367,054	798,925	12,773	555,356	468,569	232,598	24,869	80,806
13	6	8	2	20	16	3	6	4	3	9	20
1,133,754	175,656	106,875	150	1,364,657	796,528	12,773	555,356	468,569	232,598	24,869	80,806
4	...	3	...	1	1	...	...	...	...	...	...
28,149	...	6,031	...	2,397	2,397	...	...	...	...	...	...
3	...	4	2	9	6	...	3	...	...	...	...
9,386	...	38,305	10,477	695,625	563,323	...	132,302	...	...	...	...
16	6	11	5	23	19	3	7	5	4	9	9
1,161,903	175,656	106,875	33,250	1,383,892	942,022	321,384	555,356	422,551	233,898	24,869	80,806
14	6	4	4	19	16	2	6	4	4	9	6
215,688	40,795	10,890	10,240	147,773	88,896	18,141	40,736	102,342	70,528	3,621	3,082
4	...	1	...	6	4	2	5	...	1	...	...
187,590	...	8,838	...	712,779	459,470	253,309	434,870	...	28,100	...	...
(10)	...	II-D-5b	...	...	(11)	II-D-1a	(12)	...	II-D-3	...	...
16	6	9	3	21	17	3	5	5	4	9	9
758,625	134,861	87,147	23,010	523,340	393,656	49,934	79,750	320,209	135,270	21,248	77,724
16	6	9	3	21	17	3	5	5	4	9	9
758,465	132,642	46,124	22,310	450,861	345,518	46,593	58,750	316,061	135,270	20,518	77,724
1	2	6	...	6	4	2	2	1	...	1	...
160	2,147	27,212	...	36,342	15,501	3,341	17,500	4,148	...	730	...
...	1	5	1	4	3	...	3	...	...	...	...
...	72	13,811	700	36,137	32,637	...	3,500	...	...	...	...
1	...	2	2	5	3	...	3	...	...	...	...
9,386	...	38,305	10,477	695,625	563,323	...	132,302	...	...	...	...
5.7	5.1	3.7	2.7	5.4	5.6	4.8	5.0	6.4	3.8	5.3	2.4
9	3	6	4	13	11	2	4	3	1	5	2
791,383	2,243,630	5,550,185	45,448,351	1,772,300	885,300	522,000	365,000	857,448	132,700	196,745	3,000

IRRIGATION OF AGRICULTURAL LANDS

State Table 1.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS,

Item (For definitions and explanations, see text)	San Joaquin River (II-E)								
	Total	San Joaquin River direct				Stanislaus River	Tuolumne River	Los Banos Creek	Merced River
		Total	Below Newman	Newman to Mendota	Above Mendota				
(1a)	(1b)	(1c)	(2)	(3)	(4)	(5)			
1 Total acres irrigated in Census year.....1959...	1,197,000	501,000	129,000	254,000	118,000	75,000	205,000	63,000	72,000
2 1949...	1,198,468	534,040	106,269	331,611	96,160	91,675	189,216	54,179	84,010
3 Irrigation organizations.....organizations 1959...	60	38	21	11	10	8	6	6	6
4 1949...	55	33	13	7	14	8	6	3	5
5 Service area, 1959:									
6 Farm area reported served by organizations.....acres 1959...	1,080,380	435,431	135,942	211,394	88,095	64,740	208,201	59,398	88,855
7 Farm area reported irrigated by organizations.....acres 1959...	910,623	413,987	127,682	201,673	84,632	35,755	184,633	54,434	77,549
8 Water users served, total.....water users 1959...	32,278	13,657	2,131	1,354	10,172	2,576	9,481	660	3,130
9 Farm irrigation water users.....water users 1959...	29,150	13,593	2,068	1,353	10,172	1,595	7,400	659	3,130
10 Residential water users.....water users 1959...	3,123	61	61	...	...	981	2,081	...	...
11 Other water users.....water users 1959...	5	3	2	1	...	...	...	1	...
12 LAND IRRIGATED BY SOURCE OF WATER, 1959									
13 Ground water sources.....acres...	528,000	238,000	38,000	111,000	89,000	21,000	47,000	20,000	22,000
14 Surface water sources.....acres...	669,000	263,000	91,000	143,000	29,000	54,000	158,000	43,000	50,000
15 WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959									
16 Total entering conveyance systems in basin.....organizations...	60	38	21	11	10	8	6	6	6
17 acre-feet.....	4,832,908	3,650,049	1,579,644	986,775	1,276,701	653,375	989,161	1,107,798	682,436
18 From another drainage basin.....organizations...	4	6	4	2	2	1	2	1	1
19 acre-feet.....	1,478,261	2,406,316	1,435,364	883,227	280,796	79,730	138,034	1,083,836	75,245
20 From drainage basin number.....D. B. No....	...	...	(1)	(2)	(3)	II-E-3	II-E-2	II-E-1a	II-E-3
21 From natural sources within basin.....organizations...	36	18	8	5	7	7	6	3	6
22 acre-feet.....	3,354,647	1,243,733	144,280	103,548	995,905	573,645	851,127	23,962	607,191
23 Surface water.....organizations...	25	12	6	3	4	7	5	1	4
24 acre-feet.....	2,847,151	1,168,971	119,812	53,563	995,596	513,245	700,535	7,200	485,920
25 Ground water.....organizations...	22	11	4	3	3	3	4	2	5
26 acre-feet.....	507,496	74,762	24,468	49,985	309	60,400	150,592	16,762	121,271
27 From other organizations in the basin.....organizations receiving...	30	24	14	8	3	2	...	3	...
28 acre-feet.....	1,353,857	1,030,794	203,498	655,778	171,518	3,117	...	229,496	...
29 Total leaving conveyance systems.....organizations...	60	38	21	11	10	8	6	6	6
30 acre-feet.....	4,832,908	3,650,049	1,579,644	986,775	1,276,701	653,375	989,161	1,107,798	682,436
31 Conveyance loss in basin.....organizations...	35	20	9	7	8	8	5	3	4
32 acre-feet.....	745,739	314,668	91,132	157,168	66,368	41,318	189,307	71,268	40,829
33 Conveyed to another drainage basin.....organizations...	4	2	1	2	4	4	3	1	1
34 acre-feet.....	1,206,751	2,104,223	1,083,836	143,901	1,069,597	483,234	254,158	828,872	356,950
35 To drainage basin number.....D. B. No....	...	...	II-E-4	(9)	(10)	(11)	(12)	II-E-1b	II-E-6
36 Delivered for use in the basin.....organizations...	59	37	20	11	7	8	6	5	6
37 acre-feet.....	2,880,418	1,231,158	404,676	685,706	140,776	128,823	545,696	207,658	284,657
38 To farm irrigation water users.....organizations...	58	37	20	11	7	7	6	5	6
39 acre-feet.....	2,819,536	1,211,396	402,794	667,826	140,776	127,830	544,269	189,658	284,657
40 To residential water users.....organizations...	4	1	1	...	...	2	1	...	...
41 acre-feet.....	2,422	2	2	...	...	993	1,427	...	...
42 For other use.....organizations...	4	3	2	1	...	...	...	1	...
43 acre-feet.....	58,460	19,760	1,880	17,880	...	...	...	18,000	...
44 Delivered to other irrigation organizations.....organizations delivering...	5	3	2	1	2	1	...	1	...
45 acre-feet.....	1,353,857	1,030,794	203,498	655,778	171,518	3,117	...	229,496	...
46 Average delivery of irrigation water per acre irrigated as reported by organizations.....acre-feet...	3.1	2.9	3.2	3.3	1.7	3.6	2.9	3.5	3.7
47 NEW CAPITAL INVESTMENT, 1950-1959									
48 Expenditures for additional new works and equipment for irrigation and drainage, Jan. 1, 1950-Dec. 31, 1959.....organizations...	33	23	12	10	5	5	5	2	3
49 dollars.....	95,320,749	24,473,088	3,468,364	9,497,545	11,507,179	48,111,174	5,798,816	2,707,557	1,099,000

1,136,181 acre-feet from D. B. No. II-C-1, 99,183 acre-feet from D. B. No. II-E-3. 254,355 acre-feet from D. B. No. II-F-1, 828,872 acre-feet from D. B. No. II-E-4. 118,716 acre-feet from D. B. No. II-E-1b, 142,080 acre-feet from D. B. No. II-F-3. 413,651 acre-feet from D. B. No. II-E-1c, 5,185 acre-feet from D. B. No. II-E-1b. 66,054 acre-feet from D. B. No. II-E-1c, 71,735 acre-feet from D. B. No. II-F-3. 628,239 acre-feet from D. B. No. II-G-6, 117,009 acre-feet from D. B. No. II-G-9, 14,748 acre-feet from D. B. No. II-G-10, 2,199 acre-feet from D. B. No. II-G-11, 4,825 acre-feet from D. B. No. II-G-13, 1,110 acre-feet from D. B. No. II-G-4. 7302,751 acre-feet from D. B. No. III-G-9, 103,996 acre-feet from D. B. No. II-C-7. Water was transferred to the basin and released to natural stream channels in excess of the quantity of surface water withdrawn by irrigation organizations. The net effect was to increase the available surface water supply in the basin or State. 413,651 acre-feet to D. B. No. II-E-1c, 5,185 acre-feet to D. B. No. II-E-7. 1054,355 acre-feet to D. B. No. II-E-1b, 66,054 acre-feet to D. B. No. II-F-1, 795,497 acre-feet to D. B. No. II-F-3, 153,651 acre-feet to D. B. No. II-F-2. 11345,200 acre-feet to D. B. No. II-G-5, 138,034 acre-feet to D. B. No. II-E-3. 1275,245 acre-feet to D. B. No. II-E-5, 99,183 acre-feet to D. B. No. II-E-1a, 79,730 acre-feet to D. B. No. II-E-2. 1342,080 acre-feet to D. B. No. II-E-1c, 71,735 acre-feet to D. B. No. II-F-1, 868,273 acre-feet to D. B. No. II-F-4. 66,455 acre-feet to D. B. No. II-G-10, 39,794 acre-feet to D. B. No. II-G-12, 265 acre-feet to D. B. No. II-G-11.

BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Continued

San Joaquin River (II-E)—Continued		San Joaquin Valley above San Joaquin River (II-F)							Santa Maria River and basins south (II-G)					
Bear Creek	Chowchilla and Fresno Rivers	Total	Fresno Slough and West side area	Kings River	Kaweah and Tule Rivers	Deer Creek- White River area	Kern River and Buena Vista Lake	Total	Pacific Coast direct	Santa Maria River and Santa Inez River	Santa Clara River	Calleguas Creek	Los Angeles River	
(6)	(7)		(1, 2)	(3)	(4)	(5)	(6)		(1)	(2, 3)	(4)	(5)	(6)	
134,000 107,964	147,000 137,384	2,338,000 1,963,744	700,000 463,066	395,000 444,258	589,000 512,170	123,000 123,719	331,000 426,531	548,000 654,679	36,000 55,387	52,000 45,219	57,000 66,631	65,000 49,914	18,000 44,029	1 2
3 2	4 11	166 245	26 42	25 27	80 123	9 6	35 54	629 951	54 63	4 4	42 49	20 27	8 21	3 4
118,255	105,900	1,621,070	604,328	330,844	374,995	124,868	186,035	720,001	98,510	4,370	24,923	12,173	16,240	5
86,465	57,800	1,392,624	488,617	310,986	350,974	115,267	126,780	304,678	25,934	4,370	22,778	9,020	16,210	6
2,148	626	34,291	5,429	19,908	6,163	1,453	1,338	912,386	77,888	26	1,876	1,512	574,783	7
2,147	626	32,441	5,217	19,907	5,290	877	1,150	27,608	5,439	26	630	539	1,646	8
...	...	1,844	210	...	872	576	186	877,912	70,985	...	1,233	973	573,137	9
1	...	6	2	1	1	...	2	6,866	1,464	...	13	...	...	10
67,000	113,000	1,697,000	510,000	276,000	404,000	72,000	435,000	445,000	45,000	51,000	46,000	60,000	18,000	11
67,000	34,000	641,000	190,000	119,000	185,000	51,000	96,000	103,000	11,000	1,000	11,000	5,000	...	12
3	4	165	26	24	80	9	35	628	54	3	42	20	8	13
402,450	168,325	2,760,445	606,116	1,599,732	1,095,951	364,468	427,016	1,492,749	212,560	10,925	119,956	19,598	525,034	14
1	3	2	4	1	4	1	2	2	12	...	...	...	2	15
356,950	158,836	861,551	137,789	795,497	868,273	343,037	49,793	579,459	168,130	...	...	...	406,747	16
11-E-5	(4)	...	(5)	11-E-1e	11-F-3	11-F-4	11-F-5	...	(6)	...	...	...	(7)	17
3	2	145	19	21	68	5	32	578	34	3	40	20	6	18
45,500	9,489	1,898,894	468,327	804,235	227,678	21,431	377,223	913,290	44,430	10,925	119,956	19,598	118,287	19
1	1	96	17	20	44	1	14	68	8	...	9	2	...	20
32,400	3,680	1,659,667	402,915	789,060	161,963	404	305,325	223,674	22,975	...	46,826	970	...	21
3	1	60	3	5	29	4	19	553	29	3	37	19	6	22
77,900	5,809	239,227	65,412	15,175	65,715	21,027	71,898	689,616	21,455	10,925	73,130	18,628	118,287	23
1	1	37	8	4	19	4	2	118	23	...	5	...	2	24
1,250	89,200	1,014,172	113,227	65,210	486,175	288,536	61,024	581,841	118,442	...	4,882	...	87,523	25
3	4	165	26	24	80	9	35	628	54	3	42	20	8	26
402,450	168,325	2,760,445	606,116	1,599,732	1,095,951	364,468	427,016	1,492,749	212,560	10,925	119,956	19,598	525,034	27
2	4	106	22	21	49	3	19	157	21	2	7	5	3	28
29,577	58,772	492,153	174,907	126,484	101,610	15,497	73,655	91,492	8,448	315	2,880	660	34,552	29
...	...	1	...	8	2	2	...	...	4	...	2	...	3	30
...	...	142,080	...	1,082,088	34,037	49,793	...	...	106,554	...	1,110	...	28,239	31
...	...	...	...	(13)	11-F-5	11-F-6	...	...	(14)	...	11-G-1	...	11-G-1	32
3	3	164	25	23	79	8	35	619	46	3	42	20	6	33
372,873	109,553	2,126,212	431,209	391,160	651,304	299,178	353,361	1,401,257	97,558	10,610	115,966	18,938	462,243	34
3	3	163	25	22	79	8	34	615	45	3	42	20	6	35
352,173	109,553	2,014,957	414,113	390,874	571,000	297,727	341,243	641,356	40,759	10,610	68,778	16,934	31,596	36
...	...	13	1	...	5	3	4	172	27	...	15	9	2	37
...	...	3,531	435	...	1,626	1,451	19	632,216	43,930	...	7,586	2,004	430,647	38
1	...	5	1	1	2	...	2	52	7	...	5	...	...	39
20,700	...	107,724	16,661	286	78,678	...	12,099	127,685	12,869	...	39,602	...	...	40
1	1	14	4	3	9	1	2	59	14	...	4	...	1	41
1,250	89,200	1,014,172	113,227	65,210	486,175	288,536	61,024	581,841	118,442	...	4,882	...	87,523	42
4.1	1.9	1.4	0.8	1.3	1.6	2.6	2.7	2.1	1.6	2.4	3.0	1.9	1.9	43
2	4	94	17	7	46	7	23	245	26	1	24	12	1	44
803,677	12,327,437	103,155,410	2,257,930	4,391,779	43,011,282	39,374,845	14,120,174	131,385,097	69,805,165	11,238,200	27,492,313	435,159	6,000	45

IRRIGATION OF AGRICULTURAL LANDS

State Table 1.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS.

Item (For definitions and explanations, see text)	Santa Maria River and basins south (II-G)—Continued						Great Basin, total	Northwest Great Basin (III-A)	
	San Gabriel River	Santa Ana River	San Jacinto Basin	San Luis Reg. River	San Diegoito River	San Diego and Sweetwater Rivers		Total	Cowhead and Warner Lakes area
	(7)	(8)	(9)	(10)	(11)	(12, 13)			(3)
1 Total acres irrigated in Census year.....1959...	39,000	181,000	51,000	9,000	8,000	12,000	191,000	32,000	2,000
2 .....1949...	103,810	219,790	38,365	12,495	9,430	9,649	210,500	38,124	819
3 Irrigation organizations.....organizations 1959...	120	343	33	18	8	10	19	1	...
4 .....1949...	249	495	40	11	3	6	26	2	...
5 Service area, 1959: Farm area reported served by organizations.....acres 1959...	35,866	176,625	253,084	82,757	11,138	4,315	65,704	(D)	...
6 Farm area reported irrigated by organizations.....acres 1959...	25,781	136,565	35,298	22,519	4,758	1,445	61,116	(D)	...
7 Water users served, total.....water users 1959...	24,951	80,006	6,870	2,520	3,032	138,922	5,877	(D)	...
8 Farm irrigation water users.....water users 1959...	3,698	11,747	1,652	1,054	787	390	526	(D)	...
9 Residential water users.....water users 1959...	21,167	68,124	5,026	1,441	2,245	133,581	5,350	...	...
10 Other water users.....water users 1959...	86	135	192	25	...	4,951	1	...	...
11 LAND IRRIGATED BY SOURCE OF WATER, 1959 Ground water sources.....acres...	33,000	141,000	31,000	7,000	5,000	8,000	93,000	6,000	...
12 Surface water sources.....acres...	6,000	40,000	20,000	2,000	3,000	4,000	98,000	26,000	2,000
13 WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959 Total entering conveyance systems in basin.....organizations...	120	343	33	18	8	17	17	1	...
14 .....acre-feet...	221,843	583,429	312,976	96,818	63,348	101,377	536,081	(D)	...
15 From another drainage basin.....organizations...	4	3	2	2	3	4	...	...	...
16 .....acre-feet...	138,174	146,831	279,708	66,495	56,529	91,960	...	...	...
17 From drainage basin number.....D. B. No....	II-G-8	(1)	(2)	II-G-1	(3)	(4)	...	...	...
18 From natural sources within basin.....organizations...	112	321	28	10	4	6	16	1	...
19 .....acre-feet...	83,669	436,598	33,268	30,323	6,819	9,417	536,081	(D)	...
20 Surface water.....organizations...	13	27	2	5	1	3	11	1	...
21 .....acre-feet...	19,290	87,844	8,815	22,198	6,041	8,715	528,315	(D)	...
22 Ground water.....organizations...	104	314	28	9	3	3	8	...	...
23 .....acre-feet...	64,379	348,754	24,453	8,125	778	702	7,766	...	...
24 From other organizations in the basin.....organizations receiving...	14	48	7	9	4	7	1	...	...
25 .....acre-feet...	26,968	119,785	156,004	13,441	4,355	50,441	4,984	...	...
26 Total leaving conveyance systems.....organizations...	120	343	33	18	8	9	17	1	...
27 .....acre-feet...	221,843	583,429	312,976	96,818	63,348	101,377	536,081	(D)	...
28 Conveyance loss in basin.....organizations...	25	74	11	13	5	6	10	1	...
29 .....acre-feet...	5,641	25,528	2,757	3,423	510	6,778	37,028	(D)	...
30 Conveyed to another drainage basin.....organizations...	2	5	4	5	4	1	3	...	...
31 .....acre-feet...	121,470	141,174	246,366	71,012	54,365	4,825	314,051	...	...
32 To drainage basin number.....D. B. No....	(7)	(8)	(9)	(10)	(11)	II-G-1	...	...	...
33 Delivered for use in the basin.....organizations...	116	339	30	16	5	8	16	1	...
34 .....acre-feet...	94,732	416,727	63,853	22,383	8,473	89,774	185,052	(D)	...
35 To farm irrigation water users.....organizations...	116	337	30	16	5	7	16	1	...
36 .....acre-feet...	51,197	331,520	58,829	20,986	7,320	2,827	180,055	(D)	...
37 To residential water users.....organizations...	32	69	6	12	4	6	8	...	...
38 .....acre-feet...	15,013	54,493	3,961	832	1,153	72,597	4,944	...	...
39 For other use.....organizations...	15	18	2	...	...	3	1	...	...
40 .....acre-feet...	28,522	30,714	1,063	365	...	14,330	3	...	...
41 Delivered to other irrigation organizations.....organizations delivering...	7	31	3	4	4	3	1	...	...
42 .....acre-feet...	26,968	119,785	156,004	13,441	4,355	50,441	4,984	...	...
43 Average delivery of irrigation water per acre irrigated as reported by organizations...acre-feet...	2.0	2.4	1.7	0.9	1.5	2.0	2.9	(D)	...
44 NEW CAPITAL INVESTMENT, 1950-1959 Expenditures for additional new works and equipment for irrigation and drainage, Jan. 1, 1950-Dec. 31, 1959.....organizations...	1,861,786	129	10	13	6	2	10	1	...
45 .....dollars...	1,861,786	4,124,512	8,832,502	4,651,972	2,893,149	44,300	386,937	(D)	...

D Data not shown to avoid disclosure of information for individual organizations. ¹129,357 acre-feet from D. B. No. II-G-9, 17,474 acre-feet from D. B. No. II-G-7, 23,000 acre-feet from D. B. No. II-G-8, 276,708 acre-feet from D. B. No. IV-B-2b. ²56,264 acre-feet from D. B. No. II-G-10, 265 acre-feet from D. B. No. II-G-1. ³39,794 acre-feet from D. B. No. II-G-1, 52,166 acre-feet from D. B. No. II-G-11. ⁴302,751 acre-feet from D. B. No. III-C-5, 276,708 acre-feet from D. B. No. IV-B-1b. ⁵276,708 acre-feet from D. B. No. III-C-8, 3,214,841 acre-feet from D. B. No. IV-B-1. ⁶103,996 acre-feet to D. B. No. II-G-6, 17,474 acre-feet to D. B. No. II-G-5. ⁷138,174 acre-feet to D. B. No. II-G-7, 3,000 acre-feet to D. B. No. II-G-9. ⁸117,009 acre-feet to D. B. No. II-G-1, 129,357 acre-feet to D. B. No. II-G-8. ⁹56,264 acre-feet to D. B. No. II-G-11, 14,748 acre-feet to D. B. No. II-G-1. ¹⁰12,199 acre-feet to D. B. No. II-G-1, 52,166 acre-feet to D. B. No. II-G-12. ¹¹302,751 acre-feet to D. B. No. III-C-9, 276,708 acre-feet to D. B. No. IV-B-2a. ¹²3,214,841 acre-feet to D. B. No. IV-B-2, 276,708 acre-feet to D. B. No. III-C-8, 299,479 acre-feet to D. B. No. IV-B-2a.

BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Continued

Northwest Great Basin (III-A)—Con.		South Central Great Basin (III-C)								Gulf of California: Colorado River below Lees Ferry, Arizona (IV-B)		
Surprise Valley and Madeline Plains	Central desert area	Total	Honey Lake	Truckee River	Carson and Walker Rivers	Mono Lake-Owens Valley area	Dixie Valley-Fish Lake area	Southwest desert	Antelope Valley and Mojave River	Total	Colorado River direct	Salton Sea area
(4)	(5)		(1)	(2b)	(3, 4)	(5)	(6)	(8)	(9, 10)		(1)	(2)
30,000	...	159,000	36,000	...	14,000	33,000	...	10,000	66,000	548,000	84,000	464,000
37,305	...	172,376	34,213	1,565	45,083	18,036	...	7,848	65,631	531,373	62,264	469,109
1	...	18	1	2	5	3	...	...	7	13	6	8
2	...	24	1	3	6	7	...	...	7	23	3	20
(D)	...	(D)	(D)	...	24,515	(D)	...	...	3,529	609,301	89,985	519,316
(D)	...	(D)	(D)	...	22,515	(D)	...	...	1,912	583,323	85,596	497,727
(D)	...	(D)	(D)	...	49	(D)	...	...	5,218	12,234	497	11,737
(D)	...	(D)	(D)	...	49	(D)	...	...	135	7,084	482	6,602
...	...	(D)	...	...	...	(D)	...	...	5,082	5,150	15	5,135
...	...	(D)	...	...	...	...	...	...	1	...	...	...
6,000	...	87,000	11,000	...	1,000	2,000	...	10,000	63,000	23,000	3,000	20,000
24,000	...	72,000	25,000	...	13,000	31,000	...	...	3,000	525,000	81,000	444,000
1	...	16	1	1	4	3	...	2	7	13	6	8
(D)	...	(D)	(D)	(D)	80,851	(D)	...	579,459	312,892	4,767,931	4,482,623	3,500,149
...	...	1	...	...	...	...	...	2	1	...	...	2
...	...	(D)	...	...	...	...	...	579,459	302,751	276,708	...	3,491,549
...	(⁵)	III-C-8	...	...	(⁶)
1	...	15	1	1	4	2	...	...	7	12	6	6
(D)	...	(D)	(D)	(D)	80,851	(D)	...	...	10,141	4,491,223	4,482,623	8,600
1	...	10	1	1	4	2	...	...	2	9	6	6
(D)	...	(D)	(D)	(D)	80,851	(D)	...	...	2,475	4,476,644	4,473,333	3,311
...	...	8	...	...	...	1	...	...	7	6	1	5
...	...	(D)	...	...	...	(D)	...	...	7,666	14,579	9,290	5,289
...	...	1	...	...	...	1	...	...	...	4	3	1
...	...	(D)	...	...	...	(D)	...	...	...	7,740,735	7,378,795	361,940
1	...	16	1	1	4	3	...	2	7	13	6	8
(D)	...	(D)	(D)	(D)	80,851	(D)	...	579,459	312,892	4,767,931	4,482,623	3,500,149
1	...	9	1	...	4	2	...	...	2	3	4	28
(D)	...	(D)	(D)	...	9,153	(D)	...	...	673	881,609	255,671	625,938
...	...	4	...	1	1	1	...	2	1	2	3	1
...	...	(D)	...	(D)	3,300	(D)	...	579,459	302,751	852,895	3,791,028	276,708
...	II-D-5a	III-C-3b	III-C-8	...	(¹²)	II-G-6	...	(¹³)	II-G-9
1	...	15	1	...	4	3	...	...	7	10	2	8
(D)	...	(D)	(D)	...	68,398	(D)	...	...	9,468	3,033,427	435,924	2,597,503
1	...	15	1	...	4	3	...	...	7	10	2	8
(D)	...	(D)	(D)	...	68,398	(D)	...	...	5,621	2,998,922	435,424	2,563,498
...	...	8	...	...	...	1	...	...	7	7	1	6
...	...	(D)	...	...	...	(D)	...	...	3,844	34,505	500	34,005
...	...	1	...	...	...	...	...	...	1	...	...	...
...	...	(D)	...	...	...	...	...	...	3	...	...	...
...	...	1	...	...	...	1	...	...	...	2	2	1
...	...	(D)	...	...	...	(D)	...	...	...	7,740,735	7,378,795	361,940
(D)	...	(D)	(D)	...	3.0	(D)	...	...	2.9	5.1	5.1	5.2
1	...	9	...	1	5	1	...	...	2	6	2	4
(D)	...	(D)	...	(D)	110,500	(D)	...	...	251,872	24,552,013	1,814,113	22,737,900

State Table 2.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950

Item (For definitions and explanations, see text)	California, total	Klamath River to Santa Maria River excluding Central Valley	San Joaquin River	San Joaquin Valley above San Joaquin River	Santa Maria River and basins south	Sacramento- San Joaquin Delta area, and Sacramento River
		(II-B)	(II-E)	(II-F)	(II-G)	(II-C and II-D)
1 Irrigation organizations, total						
2 number.....organizations 1959...	1,075	39	60	166	629	137
1949...	1,506	54	55	245	951	139
3 Area irrigated as reported by						
4 organizations.....acres 1959...	4,184,482	30,646	910,623	1,392,624	304,678	787,095
1949...	3,135,281	19,869	844,934	745,943	349,168	557,397
5 Farm water users served directly.....water users 1959...	116,037	1,332	29,150	32,441	27,608	16,452
6 Total water conveyed.....acre-feet 1959...	28,868,651	243,389	6,186,765	3,774,617	2,074,590	6,679,314
TYPE OF ORGANIZATION						
Mutual:						
7 Unincorporated.....organizations 1959...	384	15	8	53	259	31
1949...	709	26	20	117	467	50
9 Farm area irrigated directly.....acres 1959...	75,038	1,263	1,190	12,351	17,142	25,796
10 Farm water users served						
11 directly.....water users 1959...	2,074	75	20	294	1,417	177
Total water conveyed.....acre-feet 1959...	359,229	9,853	10,235	87,070	63,528	127,861
12 Incorporated.....organizations 1959...	432	11	10	73	293	32
1949...	561	9	11	94	402	26
14 Farm area irrigated directly.....acres 1959...	1,035,041	9,595	99,559	536,167	194,911	164,166
15 Farm water users served						
16 directly.....water users 1959...	22,005	406	526	2,926	15,634	2,194
Total water conveyed.....acre-feet 1959...	3,129,936	65,114	420,346	827,986	635,125	783,908
17 District.....organizations 1959...						
18 1949...						
19 Farm area irrigated directly.....acres 1959...	2,836,277	(D)	(D)	775,557	52,374	537,365
20 Farm water users served						
21 directly.....water users 1959...	82,983	(D)	(D)	28,782	7,022	10,985
Total water conveyed.....acre-feet 1959...	15,108,773	(D)	(D)	1,795,317	615,556	3,803,922
22 U. S. Bureau of Reclamation; projects and stor-						
23 age systems operated by bureau.....organizations 1959...	13	1	2	2	1	7
1949...	6	1	2	1	...	3
24 Farm area irrigated directly.....acres 1959...	26,255	(D)	(D)	2,285	...	...
25 Farm water users served						
26 directly.....water users 1959...	473	(D)	(D)	5	...	...
Total water conveyed.....acre-feet 1959...	8,522,360	(D)	(D)	885,368	8,516	1,429,780
27 U. S. Bureau of Reclamation; operated						
28 by water users organizations 1959...	29	...	3	11	6	4
1949...	NA	NA	NA	NA	NA	NA
29 Farm area irrigated directly.....acres 1959...	845,029	...	71,444	184,723	4,453	24,641
30 Farm water users served						
31 directly.....water users 1959...	12,466	...	795	3,065	463	1,032
Total water conveyed.....acre-feet 1959...	6,639,274	...	205,711	452,846	24,925	155,961
32 U. S. Bureau of Indian Affairs.....organizations 1959...	7	...	...	...	2	1
1949...	14	...	...	1	5	1
34 Farm area irrigated directly.....acres 1959...	3,354	...	...	...	380	800
35 Farm water users served						
36 directly.....water users 1959...	443	...	...	...	91	10
Total water conveyed.....acre-feet 1959...	12,741	...	...	...	2,123	2,050
37 Commercial.....organizations 1959...	51	7	4	7	22	10
1949...	80	9	5	10	40	14
39 Farm area irrigated directly.....acres 1959...	158,517	3,535	9,248	66,264	19,806	58,968
40 Farm water users served						
41 directly.....water users 1959...	5,919	69	611	434	1,560	3,086
Total water conveyed.....acre-feet 1959...	952,298	64,660	79,007	178,876	96,786	531,793
42 State.....organizations 1959...	...	...	...	...	...	...
43 1949...	...	...	...	...	...	...
44 Farm area irrigated directly.....acres 1959...	...	...	...	...	...	...
45 Farm water users served						
46 directly.....water users 1959...	...	...	...	...	...	...
Total water conveyed.....acre-feet 1959...	...	...	...	...	...	...
47 City.....organizations 1959...	15	3	...	...	12	...
48 1949...	22	4	...	2	14	1
49 Farm area irrigated directly.....acres 1959...	50,000	1,177	...	...	20,065	...
50 Farm water users served						
51 directly.....water users 1959...	2,140	102	...	...	1,884	...
Total water conveyed.....acre-feet 1959...	783,254	9,198	...	...	652,956	...

D Data not shown to avoid disclosure of information for individual organizations.
NA Not available.

State Table 2.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Continued

	Item (For definitions and explanations, see text)	California, total	Klamath River to Santa Maria River excluding Central Valley	San Joaquin River	San Joaquin Valley above San Joaquin River	Santa Maria River and basins south	Sacramento- San Joaquin Delta area, and Sacramento River
			(II-B)	(II-E)	(II-F)	(II-G)	(II-C and II-D)
	TYPE OF SERVICE, 1959						
1	All water directly from surface and ground water sources.....organizations...	846	32	28	128	510	110
2	Total water conveyed.....acre-feet...	16,817,062	208,070	4,511,818	2,487,560	738,930	4,637,979
3	Water delivered.....acre-feet...	15,002,875	124,493	2,841,138	1,971,876	636,177	2,719,493
4	To farm and residential users only.....organizations...	793	25	23	115	488	100
5	acre-feet...	4,395,091	95,815	896,418	574,432	284,129	1,798,767
6	To farm and residential users and other irrigation organizations.....organizations...	37	2	4	11	17	7
7	Water to farm and residential users.....acre-feet...	1,300,836	8,458	597,883	384,182	36,283	269,516
8	Water to other irrigation organizations.....acre-feet...	1,472,554	265	1,148,815	220,256	23,613	79,605
9	To other irrigation organizations only.....organizations...	14	4	1	2	4	3
10	acre-feet...	7,834,394	19,955	198,022	793,006	292,152	571,605
11	Part of water from other organizations.....organizations...	123	5	11	18	70	17
12	Total water conveyed.....acre-feet ..	10,545,371	35,268	1,350,510	762,813	1,099,947	1,986,886
13	From surface and ground water sources.....acre-feet...	504,793	15,099	312,786	272,885	632,719	1,210,748
14	From other irrigation organizations.....acre-feet...	10,040,578	20,169	1,037,724	489,928	467,228	776,138
15	Water delivered.....acre-feet...	8,368,444	29,164	1,063,579	576,332	989,153	1,502,236
16	To farm and residential users only.....organizations...	91	5	10	17	47	12
17	acre-feet...	2,779,735	29,164	979,969	455,166	229,650	1,034,862
18	To farm and residential users and other irrigation organizations.....organizations...	31	...	1	1	22	5
19	Water to farm and residential users.....acre-feet...	3,519,369	...	76,590	120,256	659,958	291,974
20	Water to other irrigation organizations.....acre-feet...	2,059,636	...	7,020	910	89,841	175,800
21	To other irrigation organizations only.....organizations...	1	...	...	...	...	...
22	acre-feet...	9,704	...	...	...	9,704	...
23	All of water from other organizations.....organizations...	97	2	21	19	48	6
24	Total water conveyed.....acre-feet...	1,506,218	51	324,437	524,244	235,713	54,869
25	Water delivered.....acre-feet...	1,393,965	51	271,098	484,452	230,083	43,225
26	To farm and residential users only.....organizations...	80	2	21	19	32	5
27	acre-feet...	1,163,366	51	271,098	484,452	43,461	39,248
28	To farm and residential users and other irrigation organizations.....organizations...	9	...	...	...	9	...
29	Water to farm residential users.....acre-feet...	20,091	...	...	...	20,091	...
30	Water to other irrigation organizations.....acre-feet...	11,893	...	...	...	11,893	...
31	To other irrigation organizations only.....organizations...	8	...	...	...	7	1
32	acre-feet...	158,615	...	...	...	154,638	3,977
33	No water conveyed.....organizations...	9	...	...	1	1	4
	WATER FROM OTHER SOURCES						
34	Organizations reporting no water from other sources used on land served by the organization.....organizations...	833	28	36	93	528	114
35	acres served...	3,693,391	31,611	1,162,036	659,613	410,680	1,000,734
36	acres irrigated...	3,064,803	27,947	989,673	622,644	253,040	738,607
37	Water delivered to farms.....acre-feet...	10,066,439	66,991	2,852,236	784,247	578,530	3,081,577
38	acre-feet per acre...	3.3	2.4	2.9	1.3	2.3	4.2
39	Organizations reporting water from other sources used on land served by the organization.....organizations...	208	6	23	70	87	15
40	acres served...	1,714,108	7,038	146,494	1,034,026	340,549	116,422
41	acres irrigated...	1,225,914	6,999	133,175	841,753	282,866	112,274
42	Water delivered to farms.....acre-feet...	2,733,437	30,858	468,635	1,354,100	159,622	465,809
43	acre-feet per acre...	2.2	4.4	3.5	1.6	1.9	4.1

IRRIGATION OF AGRICULTURAL LANDS

State Table 2.--NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950--Continued

	Item (For definitions and explanations, see text)	California, total	Klamath River to Santa Maria River excluding Central Valley	San Joaquin River	San Joaquin Valley above San Joaquin River	Santa Maria River and basins south	Sacramento- San Joaquin Delta areas, and Sacramento River
			(II-B)	(II-E)	(II-F)	(II-G)	(II-C and II-D)
	WATER DELIVERED PER ACRE						
	Organizations reporting no water from other sources used on same land:						
1	0.1 to 0.9 acre-feet per acre.....organizations...	54	6	...	5	40	...
2	acres irrigated.....	319,288	560	...	287,214	30,926	...
3	1.0 to 1.9 acre-feet per acre.....organizations...	175	8	6	15	132	12
4	acres irrigated.....	485,243	11,278	249,722	265,371	73,862	63,165
5	2.0 to 2.9 acre-feet per acre.....organizations...	210	7	9	15	138	29
6	acres irrigated.....	589,825	12,309	274,533	14,869	103,418	174,909
7	3.0 to 3.9 acre-feet per acre.....organizations...	163	2	13	26	92	24
8	acres irrigated.....	606,260	115	345,832	44,531	27,640	161,692
9	4.0 to 4.9 acre-feet per acre.....organizations...	105	2	4	14	66	16
10	acres irrigated.....	266,544	3,141	116,371	5,250	13,033	82,931
11	5.0 to 5.9 acre-feet per acre.....organizations...	51	1	2	10	22	11
12	acres irrigated.....	633,831	94	2,375	3,966	1,913	97,754
13	6.0 to 6.9 acre-feet per acre.....organizations...	26	1	...	1	18	4
14	acres irrigated.....	96,941	305	...	237	937	95,468
15	7.0 to 7.9 acre-feet per acre.....organizations...	23	...	...	2	11	9
16	acres irrigated.....	39,090	...	250	596	523	37,721
17	8.0 to 9.9 acre-feet per acre.....organizations...	19	1	...	3	6	...
18	acres irrigated.....	25,869	145	...	616	515	23,901
19	10.0 or more acre-feet per acre.....organizations...	7	...	1	...	3	2
20	acres irrigated.....	1,912	...	540	...	273	1,066
	SIZE OF ORGANIZATION						
	Size of organization (number of farm irrigation water users served directly):						
21	None.....organizations...	35	5	1	3	14	9
22	1 to 3.....organizations...	227	6	12	27	156	17
23	water users.....	536	15	30	39	367	43
24	4 to 9.....organizations...	277	14	10	39	176	28
25	water users.....	1,589	90	64	229	997	150
26	10 to 29.....organizations...	245	6	12	71	149	28
27	water users.....	3,924	101	218	726	2,336	430
28	30 to 99.....organizations...	247	4	7	30	78	19
29	water users.....	7,624	245	301	1,440	4,084	1,014
30	100 to 299.....organizations...	80	3	6	13	37	20
31	water users.....	13,414	594	1,051	2,432	6,020	3,255
32	300 to 999.....organizations...	49	1	5	10	16	12
33	water users.....	23,750	308	2,167	5,132	8,255	5,950
34	1,000 or more.....organizations...	15	...	7	3	3	4
35	water users.....	66,876	...	43,705	32,365	5,719	7,693
	Size of organization (acre-feet of water delivered directly to farms):						
36	None.....organizations...	35	5	1	3	14	9
37	1 to 299 acre-feet.....organizations...	394	18	6	30	329	3
38	acre-feet.....	47,941	1,775	606	3,076	40,809	496
39	300 to 999 acre-feet.....organizations...	247	6	2	36	180	11
40	acre-feet.....	135,136	3,037	1,158	21,118	95,942	7,675
41	1,000 to 2,999 acre-feet.....organizations...	137	3	5	30	68	24
42	acre-feet.....	249,149	4,862	9,842	56,986	121,545	41,172
43	3,000 to 9,999 acre-feet.....organizations...	114	1	17	28	26	33
44	acre-feet.....	653,363	5,696	95,505	170,749	144,379	182,045
45	10,000 to 29,999 acre-feet.....organizations...	78	6	11	21	11	27
46	acre-feet.....	1,372,593	82,479	191,999	381,545	215,916	458,806
47	30,000 to 99,999 acre-feet.....organizations...	46	...	10	12	...	...
48	acre-feet.....	2,642,298	...	570,994	701,939	...	1,321,572
49	100,000 or more acre-feet.....organizations...	24	...	8	5	1	8
50	acre-feet.....	7,679,396	...	2,450,787	794,024	119,561	1,535,620
	Size of organization (acre-feet of water conveyed):						
51	None.....organizations...	9	...	...	1	1	4
52	1 to 299 acre-feet.....organizations...	359	15	6	29	300	3
53	acre-feet.....	45,144	1,517	635	3,089	38,631	515
54	300 to 999 acre-feet.....organizations...	230	6	2	30	174	8
55	acre-feet.....	123,932	2,977	1,258	17,361	91,274	5,323
56	1,000 to 2,999 acre-feet.....organizations...	139	5	5	29	75	16
57	acre-feet.....	244,133	8,046	11,086	52,125	129,102	31,720
58	3,000 to 9,999 acre-feet.....organizations...	148	4	15	34	47	37
59	acre-feet.....	842,395	27,149	89,598	188,821	267,049	216,115
60	10,000 to 29,999 acre-feet.....organizations...	93	7	11	17	23	30
61	acre-feet.....	1,593,082	83,471	185,862	360,573	399,310	546,963
62	30,000 to 99,999 acre-feet.....organizations...	52	2	10	13	6	20
63	acre-feet.....	2,855,070	120,229	644,540	595,776	280,969	1,186,467
64	100,000 or more acre-feet.....organizations...	45	...	13	3	17	...
65	acre-feet.....	24,160,998	...	5,650,456	4,103,201	995,170	4,956,227

State Table 3.—LAND IRRIGATED BY SOURCE OF WATER, BY DRAINAGE BASINS: CENSUS OF 1959

	Item (For definitions and explanations, see text)	California, total	North Pacific Coast excluding Columbia River	Klamath River to Santa Maria River excluding Central Valley	Sacramento-San Joaquin Delta area and Sacramento River	San Joaquin River	San Joaquin Valley above San Joaquin River	Santa Maria River and Basins south
			(I-A)	(II-B)	(III-C and II-D)	(II-E)	(II-F)	(II-G)
1	Total acres irrigated.....farms reporting...	74,138	53	7,929	18,382	11,831	15,600	16,115
2	acres...	7,395,570	3,013	492,663	1,929,820	1,197,126	2,337,633	548,372
3	Acres irrigated by sprinklers.....farms reporting...	18,378	38	4,441	4,242	681	1,302	7,117
4	acres...	838,547	2,452	184,512	182,399	53,451	228,127	152,669
5	Sprinklers only.....farms reporting...	14,160	36	3,731	3,021	371	582	6,073
6	acres...	478,278	2,422	140,888	107,027	24,290	75,471	107,353
	LAND IRRIGATED, BY SOURCE OF WATER TO INDIVIDUAL FARMS, 1959							
	Ground water sources on farm.....farms reporting...	40,393	37	6,367	9,736	3,667	14,048	5,122
8	acres...	3,644,279	2,522	402,560	745,529	395,688	1,629,446	330,210
9	Ground water sources on farm only.....farms reporting...	26,023	35	5,902	8,156	1,478	5,548	3,899
10	acres...	2,248,970	2,423	357,845	522,325	190,346	818,097	256,029
11	Surface sources on farm.....farms reporting...	5,552	13	1,204	2,671	315	361	337
12	acres...	836,452	380	49,379	539,475	39,853	62,687	20,217
13	Surface sources on farm only.....farms reporting...	3,541	11	883	1,668	165	142	178
14	acres...	574,507	294	33,627	387,925	20,725	37,905	9,821
15	Irrigation organization sources.....farms reporting...	43,295	5	864	7,980	10,138	9,743	11,942
16	acres...	2,914,839	111	40,724	644,816	761,785	645,500	197,945
17	Irrigation organization sources only.....farms reporting...	29,634	5	645	6,643	7,928	1,377	10,755
18	acres...	1,865,635	111	14,852	453,976	508,708	162,437	140,907
19	Both farm ground water sources and surface sources.....farms reporting...	1,265	2	279	575	51	163	96
20	acres...	308,394	185	32,527	164,213	16,853	43,740	11,454
21	Both irrigation organization and farm ground water or farm surface sources.....farms reporting...	13,675	...	220	1,240	2,209	8,370	1,467
22	acres...	2,398,064	...	53,812	401,381	460,694	1,275,454	130,161

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950

Item (For definitions and explanations, see text)	California, total						
	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users	
Irrigation organizations.....organizations 1959...	1,075	384	432	173	13	29	73
Service area, 1959:	1,506	709	561	114	6	NA	116
Area served, as reported							
by organizations.....acres...	5,293,986	93,548	1,339,885	3,538,731	35,070	935,273	286,572
Area irrigated, as reported							
by organizations.....acres...	4,184,482	75,038	1,035,041	2,836,277	26,255	845,029	211,871
Water users served, 1959, total.....water users...	1,152,970	8,527	71,218	139,117	1,299	18,906	933,009
Farm irrigation water users.....water users...	116,037	2,074	22,039	82,983	473	12,466	8,502
Residential water users.....water users...	1,018,384	6,205	48,942	55,868	746	6,426	906,623
Other water users.....water users...	18,549	48	271	266	80	14	17,884
TYPE OF SERVICE, 1959							
All water directly from surface and ground							
water sources.....organizations...	846	379	333	79	7	4	48
Total water conveyed.....acre-feet...	16,817,062	346,974	1,976,977	5,513,974	8,446,865	421,614	532,272
Water delivered.....acre-feet...	15,002,875	295,687	1,615,683	4,457,863	8,224,134	196,093	409,508
To farm and residential users							
only.....organizations...	793	374	308	69	1	2	41
acre-feet...	4,395,091	265,694	1,254,930	2,589,120	25,799	190,195	259,548
To farm and residential users and other							
irrigation organizations.....organizations...	37	2	20	8	2	2	5
Water to farm and residential							
users.....acre-feet...	1,300,836	1,684	196,902	975,080	19,695	5,123	107,475
Water to other irrigation							
organizations.....acre-feet...	1,472,554	483	143,897	64,989	1,238,205	775	24,980
To other irrigation organizations							
only.....organizations...	14	2	4	2	4	...	2
acre-feet...	7,834,394	27,826	19,954	828,674	6,940,435	...	17,505
Part of water from other							
organizations.....organizations...	123	2	60	41	1	8	19
Total water conveyed.....acre-feet...	10,545,371	11,201	1,018,805	8,254,481	75,495	5,344,064	1,185,389
From surface and ground water							
sources.....acre-feet...	504,793	10,821	1,737,453	376,788	1,150	1,250,824	855,787
From other irrigation organizations.....acre-feet...	10,040,578	380	1,756,258	7,877,693	76,645	7,494,888	329,602
Water delivered.....acre-feet...	8,368,444	11,098	614,837	6,723,527	50,924	4,222,136	968,058
To farm and residential users							
only.....organizations...	91	1	46	32	1	5	11
acre-feet...	2,779,735	910	485,886	2,148,216	50,924	162,524	93,799
To farm and residential users and other							
irrigation organizations.....organizations...	31	1	14	8	...	3	8
Water to farm and residential							
users.....acre-feet...	3,519,369	10,188	74,240	2,637,660	...	2,268,887	797,281
Water to other irrigation							
organizations.....acre-feet...	2,059,636	...	54,711	1,927,947	...	1,790,785	76,978
To other irrigation organizations							
only.....organizations...	1	...	...	...	...	...	...
acre-feet...	9,704	...	...	9,704	...	...	...
All of water from other organizations.....organizations...	97	3	37	51	...	15	6
Total water conveyed.....acre-feet...	1,506,218	1,054	134,214	1,340,318	...	873,596	30,632
Water delivered.....acre-feet...	1,353,965	1,054	122,597	1,208,479	...	768,982	21,835
To farm and residential users							
only.....organizations...	80	3	32	42	...	13	3
acre-feet...	1,163,366	1,054	106,044	1,041,415	...	757,558	14,853
To farm and residential users and other							
irrigation organizations.....organizations...	9	...	4	4	...	1	1
Water to farm and residential							
users.....acre-feet...	20,091	...	11,431	7,443	...	6,104	1,217
Water to other irrigation							
organizations.....acre-feet...	11,893	...	967	8,628	...	1,343	2,298
To other irrigation organizations							
only.....organizations...	8	...	1	5	...	1	2
acre-feet...	158,615	...	4,155	150,993	...	3,977	3,467
No water conveyed.....organizations...	9	...	2	2	5	2	...
WATER FROM OTHER SOURCES							
Organizations reporting no water from other							
sources used on the land served by the							
organization.....organizations...	833	348	317	111	4	13	53
acres served...	3,693,391	82,992	767,714	2,602,899	48,380	832,994	191,406
acres irrigated...	3,064,803	65,015	607,105	2,236,174	38,900	751,937	117,609
water delivered to farms (acre-feet)...	10,046,439	247,957	1,483,199	7,812,016	139,190	3,294,973	364,077
acre-feet per acre...	3.3	3.8	2.4	3.5	3.6	4.0	3.1
Organizations reporting water from other							
sources used on land served by the							
organization.....organizations...	208	33	107	52	...	12	16
acres served...	1,744,108	11,156	623,635	983,971	...	201,882	95,346
acres irrigated...	1,225,914	10,623	472,787	648,242	...	186,082	94,262
water delivered to farms (acre-feet)...	2,733,437	25,848	821,763	1,604,563	...	439,199	281,273
acre-feet per acre...	2.2	2.4	1.7	2.5	...	2.2	3.0
NEW CAPITAL INVESTMENT, 1950-1959							
Expenditures for additional new works and							
equipment for irrigation and drainage,							
January 1, 1950-December 31, 1959.....organizations...	487	137	192	118	12	27	28
By U. S. B. R. ....dollars...	354,593,099	...	132,700	145,697,702	208,762,697	145,830,402	...
By water users ....dollars...	141,377,823	496,430	13,228,681	117,784,059	...	16,299,179	9,868,653

See footnotes at end of table.

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

Item (For definitions and explanations, see text)	California, total						
	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users	
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
Total entering conveyance systems.....organizations...	1,066	384	430	171	8	27	73
acre-feet.....	17,321,855	357,795	1,239,524	5,890,762	8,445,715	1-1,729,210	1,388,059
From another drainage basin.....organizations...	2	...	...	2	...	2	...
acre-feet.....	387,033	...	...	387,033	...	387,033	...
From drainage basin.....D. B. No. ....	...	...	...	...	...	...	...
From sources within basin.....organizations...	968	381	393	119	8	10	67
acre-feet.....	16,934,822	357,795	1,239,524	5,503,729	8,445,715	1-2,116,243	1,388,059
Surface water.....organizations...	364	90	127	95	8	4	...
acre-feet.....	15,276,039	285,957	631,791	4,771,552	8,445,715	1-2,147,864	1,141,024
Ground water.....organizations...	688	295	306	50	...	4	37
acre-feet.....	1,658,783	71,838	607,733	732,177	...	31,621	247,035
From other organizations in the basin.....organizations receiving...	219	4	97	92	1	23	25
acre-feet.....	11,546,796	1,434	1,890,472	9,218,011	76,645	8,368,484	360,234
Total leaving conveyance systems.....organizations...	1,066	384	430	171	8	27	73
acre-feet.....	17,321,855	330,920	2,906,312	12,117,838	343,720	4,842,394	1,623,065
Conveyance loss in basin.....organizations...	436	94	183	111	4	19	44
acre-feet.....	3,412,068	36,477	406,360	2,530,288	172,158	1,147,994	266,785
Conveyed to another drainage basin.....organizations...	2	1	1	...	...	1	...
acre-feet.....	302,779	3,300	299,479	...	...	299,479	...
To drainage basin number.....D. B. No. ....	...	...	...	...	...	...	...
Delivered for use in the basin.....organizations...	1,046	383	424	164	5	25	70
acre-feet.....	13,607,008	291,143	2,200,473	9,587,550	171,562	3,394,921	1,356,280
To farm irrigation water users.....organizations...	1,039	381	423	162	4	24	69
acre-feet.....	12,350,452	270,805	2,090,181	9,249,377	94,739	3,352,199	645,350
To domestic water users.....organizations...	237	68	85	48	3	8	33
acre-feet.....	828,036	8,725	39,252	149,557	1,679	38,192	628,823
For other use.....organizations...	83	12	31	21	3	5	16
acre-feet.....	428,520	11,613	71,040	188,616	75,144	4,530	82,107
Delivered to other irrigation organizations.....organizations delivering...	96	4	42	26	6	5	18
acre-feet.....	11,546,796	28,309	223,684	2,990,935	8,178,640	1,796,880	125,228
SIZE OF ORGANIZATION, 1959							
Size of organization (number of farm irrigation water users):							
None.....organizations...	39	4	11	11	9	3	4
1 to 3 water users.....organizations...	227	178	35	11	...	1	3
4 to 9 water users.....organizations...	277	148	98	15	1	...	15
10 to 29 water users.....organizations...	241	51	143	32	...	1	15
30 to 99 water users.....organizations...	147	3	93	32	1	4	18
100 to 299 water users.....organizations...	80	...	37	28	2	8	13
300 to 999 water users.....organizations...	49	...	14	32	...	11	3
1,000 or more water users.....organizations...	15	...	1	12	...	1	2
Size of organization (acre-feet of water delivered directly to farms):							
None.....organizations...	35	3	8	11	9	4	4
1 to 299 acre-feet.....organizations...	394	240	119	15	...	1	20
300 to 999 acre-feet.....organizations...	247	95	135	7	...	1	10
1,000 to 2,999 acre-feet.....organizations...	137	25	73	21	...	1	18
3,000 to 9,999 acre-feet.....organizations...	114	18	50	32	1	3	13
10,000 to 29,999 acre-feet.....organizations...	78	3	33	39	1	7	5
30,000 to 99,999 acre-feet.....organizations...	46	...	10	29	2	5	5
100,000 or more acre-feet.....organizations...	24	...	4	19	...	7	1
Size of organization (acre-feet of water conveyed):							
None.....organizations...	9	...	2	2	5	2	...
1 to 299 acre-feet.....organizations...	359	236	104	7	...	1	12
300 to 999 acre-feet.....organizations...	230	90	124	8	...	...	8
1,000 to 2,999 acre-feet.....organizations...	139	28	85	14	...	2	19
3,000 to 9,999 acre-feet.....organizations...	148	26	63	40	2	4	14
10,000 to 29,999 acre-feet.....organizations...	93	6	33	40	...	7	14
30,000 to 99,999 acre-feet.....organizations...	52	...	14	32	3	4	3
100,000 or more acre-feet.....organizations...	45	...	7	30	3	9	5

NA Not available.

¹Water was transferred to the basin and released to natural stream channels in excess of the quantity of surface water withdrawn by irrigation organizations. The net effect was to increase the available surface water supply in the basin or State.

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950-59.

Item (For definitions and explanations, see text)	Klamath River to Santa Maria River excluding Central Valley (II-B)						
	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users	
Irrigation organizations.....organizations 1959...	39	15	11	2	1	...	10
Service area, 1959:	54	26	9	5	1	NA	13
Area served, as reported							
by organizations.....acres...	34,349	1,499	10,229	(D)	(D)	...	4,986
Area irrigated, as reported							
by organizations.....acres...	30,646	1,263	9,995	(D)	(D)	...	4,712
Water users served, 1959, total.....water users...	110,163	198	3,960	(D)	(D)	...	104,518
Farm irrigation water users.....water users...	1,332	75	404	(D)	(D)	...	171
Residential water users.....water users...	97,373	123	3,548	...	730	...	92,972
Other water users.....water users...	11,458	...	8	...	75	...	11,375
TYPE OF SERVICE, 1959							
All water directly from surface and ground							
water sources.....organizations...	32	14	7	1	1	...	9
Total water conveyed.....acre-feet...	208,070	9,845	44,785	(D)	(D)	...	73,671
Water delivered.....acre-feet...	124,493	4,040	44,090	(D)	(D)	...	58,400
To farm and residential users							
only.....organizations...	25	13	4	1	...	...	7
acre-feet...	95,815	4,040	28,535	(D)	...	...	52,140
To farm and residential users and other							
irrigation organizations.....organizations...	2	...	...	...	1	...	1
Water to farm and residential							
users.....acre-feet...	8,458	...	...	...	(D)	...	1,833
Water to other irrigation							
organizations.....acre-feet...	265	...	...	...	(D)	...	27
To other irrigation organizations,							
only.....organizations...	4	...	3	...	...	...	1
acre-feet...	19,955	...	15,555	...	...	...	4,400
Part of water from other							
organizations.....organizations...	5	...	3	1	...	...	1
Total water conveyed.....acre-feet...	35,268	...	20,286	(D)	...	...	187
From surface and ground water							
sources.....acre-feet...	15,099	...	4,544	(D)	...	...	160
From other irrigation organizations.....acre-feet...	20,169	...	15,742	(D)	...	...	27
Water delivered.....acre-feet...	29,164	...	18,281	(D)	...	...	187
To farm and residential users							
only.....organizations...	5	...	3	1	...	...	1
acre-feet...	29,164	...	18,281	(D)	...	...	187
To farm and residential users and other							
irrigation organizations.....organizations...	...	...	...	...	...	...	...
Water to farm and residential							
users.....acre-feet...	...	...	...	...	...	...	...
Water to other irrigation							
organizations.....acre-feet...	...	...	...	...	...	...	...
To other irrigation organizations							
only.....organizations...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
All of water from other organizations.....organizations...	2	1	1	...	...	...	...
Total water conveyed.....acre-feet...	51	8	43	...	...	...	...
Water delivered.....acre-feet...	51	8	43	...	...	...	...
To farm and residential users							
only.....organizations...	2	1	1	...	...	...	...
acre-feet...	51	8	43	...	...	...	...
To farm and residential users and other							
irrigation organizations.....organizations...	...	...	...	...	...	...	...
Water to farm and residential							
users.....acre-feet...	...	...	...	...	...	...	...
Water to other irrigation							
organizations.....acre-feet...	...	...	...	...	...	...	...
To other irrigation organizations							
only.....organizations...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
No water conveyed.....organizations...	...	...	...	...	...	...	...
WATER FROM OTHER SOURCES							
Organizations reporting no water from other							
sources used on the land served by the							
organization.....organizations...	28	11	6	2	1	...	8
acres served...	31,611	995	4,029	(D)	(D)	...	8,952
acres irrigated...	27,947	798	3,995	(D)	(D)	...	8,678
water delivered to farms (acre-feet)...	66,991	3,184	15,171	(D)	(D)	...	21,144
acre-feet per acre...	2.4	4.0	4.5	(D)	(D)	...	2.4
Organizations reporting water from other							
sources used on land served by the							
organization.....organizations...	6	3	2	...	...	...	1
acres served...	7,038	504	6,200	...	...	...	334
acres irrigated...	6,999	465	6,200	...	...	...	334
water delivered to farms (acre-feet)...	30,858	842	29,648	...	...	...	368
acre-feet per acre...	4.4	1.8	4.8	...	...	...	1.1
NEW CAPITAL INVESTMENT, 1950-1959							
Expenditures for additional new works and							
equipment for irrigation and drainage,							
January 1, 1950-December 31, 1959.....organizations...	14	5	4	2	1	...	2
By U. S. B. R. ....dollars...	2,232,026	...	...	(D)	(D)	...	...
By water users organizations.....dollars...	9,361,427	13,648	347,077	(D)	...	...	23,504

See footnotes at end of table.

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

Klamath River to Santa Maria River excluding Central Valley (II-B)							
Item (For definitions and explanations, see text)	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users	
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
Total entering conveyance systems.....organizations... 							

D Data not shown to avoid disclosure of information for individual organizations.

NA Not available.

IRRIGATION OF AGRICULTURAL LANDS

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950-59.

Item (For definitions and explanations, see text)	Sacramento-San Joaquin Delta area and Sacramento River (II-C and II-D)							
	All types	Mutual		District	U. S. Bureau of Reclamation			Commercial, Indian, State, city, and other
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users		
Irrigation organizations.....organizations 1959...	177	31	32	56	7	4	11	
1949...	139	50	26	44	3	NA	16	
Service area, 1959:								
Area served, as reported								
by organizations.....acres...	1,041,890	32,786	207,790	681,445	...	27,339	119,869	
Area irrigated, as reported								
by organizations.....acres...	787,095	25,796	164,166	537,365	...	24,641	99,768	
Water users served, 1959, total.....water users...	44,020	205	4,230	28,284	...	1,039	11,301	
Farm irrigation water users.....water users...	16,452	177	2,194	10,969	...	1,032	3,096	
Residential water users.....water users...	27,362	12	2,030	17,269	...	1	8,051	
Other water users.....water users...	206	16	6	30	...	6	154	
TYPE OF SERVICE, 1959								
All water directly from surface and ground								
water sources.....organizations...	110	31	29	38	3	1	9	
Total water conveyed.....acre-feet...	4,637,579	127,861	753,930	2,134,422	1,429,780	114,809	191,586	
Water delivered.....acre-feet...	2,719,493	110,572	611,967	1,813,381	45,364	66,241	138,209	
To farm and residential users								
only.....organizations...	100	31	28	34	...	1	7	
acre-feet...	1,798,767	110,572	547,386	1,021,830	...	66,241	118,979	
To farm and residential users and other								
irrigation organizations.....organizations...	7	...	1	3	2	...	1	
Water to farm and residential								
users.....acre-feet...	269,516	...	60,595	204,965	...	...	3,956	
Water to other irrigation								
organizations.....acre-feet...	79,605	...	3,986	34,586	38,864	...	2,169	
To other irrigation organizations								
only.....organizations...	3	...	...	1	1	...	1	
acre-feet...	571,605	...	...	552,000	6,500	...	13,105	
Part of water from other								
organizations.....organizations...	17	...	2	13	...	1	2	
Total water conveyed.....acre-feet...	1,986,886	...	21,338	1,623,291	...	25,636	342,297	
From surface and ground water								
sources.....acre-feet...	1,210,748	...	11,500	974,651	...	12,531	224,597	
From other irrigation organizations.....acre-feet...	776,138	...	9,838	648,640	...	13,105	117,660	
Water delivered.....acre-feet...	1,502,236	...	19,898	1,260,619	...	18,714	221,719	
To farm and residential users								
only.....organizations...	12	...	2	10	...	1	...	
acre-feet...	1,034,862	...	19,898	1,014,964	...	18,714	...	
To farm and residential users and other								
irrigation organizations.....organizations...	5	...	...	3	...	...	2	
Water to farm and residential								
users.....acre-feet...	291,574	...	...	127,995	...	...	163,579	
Water to other irrigation								
organizations.....acre-feet...	175,800	...	...	117,660	...	...	58,140	
To other irrigation organizations								
only.....organizations...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
All of water from other organizations.....organizations...	6	...	1	5	...	2	...	
Total water conveyed.....acre-feet...	54,489	...	8,640	46,209	...	15,516	...	
Water delivered.....acre-feet...	43,225	...	8,640	34,585	...	12,979	...	
To farm and residential users								
only.....organizations...	5	...	1	4	...	1	...	
acre-feet...	39,248	...	8,640	30,608	...	9,002	...	
To farm and residential users and other								
irrigation organizations.....organizations...	...	...	...	...	...	...	...
Water to farm and residential								
users.....acre-feet...	...	...	...	...	...	...	...
Water to other irrigation								
organizations.....acre-feet...	...	...	...	...	...	...	...
To other irrigation organizations								
only.....organizations...	1	...	...	1	...	1	...	
acre-feet...	3,977	...	...	3,977	...	3,977	...	
No water conveyed.....organizations...	4	...	...	...	4	...	...
WATER FROM OTHER SOURCES								
Organizations reporting no water from other								
sources used on the land served by the								
organization.....organizations...	114	30	29	44	2	2	9	
acres served...	1,000,734	32,186	197,434	657,484	12,801	24,630	100,829	
water delivered to farms (acre-feet)...	738,607	25,396	154,995	507,980	8,758	22,196	41,478	
acres irrigated...	3,081,977	107,777	595,596	2,189,025	18,766	84,955	170,414	
acre-feet per acre...	4.2	4.2	3.8	3.8	2.1	3.4	4.1	
Organizations reporting water from other								
sources used on land served by the								
organization.....organizations...	15	1	3	10	...	1	1	
acres served...	116,422	600	10,356	86,426	...	5,418	19,040	
acres irrigated...	112,274	400	9,171	84,413	...	4,889	18,290	
water delivered to farms (acre-feet)...	465,809	1,200	33,333	322,294	...	18,000	108,982	
acre-feet per acre...	4.1	3.0	3.6	3.6	...	3.3	6.0	
NEW CAPITAL INVESTMENT, 1950-1959								
Expenditures for additional new works and								
equipment for irrigation and drainage,								
January 1, 1950 to December 31, 1959.....organizations...	78	11	16	40	7	4	4	
By U. S. B. R.....dollars...	64,726,081	...	132,700	16,381,450	48,211,931	16,381,450	...	
By water users organizations.....dollars...	14,156,918	39,920	638,524	8,940,163	...	639,403	4,538,311	
See footnote at end of table.								

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

Sacramento-San Joaquin Delta area and Sacramento River (II-C and II-D)							
Item (For definitions and explanations, see text)	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users	
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
Total entering conveyance systems.....organizations...	133	31	32	56	3	4	11
acre-feet.....	5,848,327	127,861	765,430	3,109,073	1,429,780	127,340	416,183
From another drainage basin.....organizations...	3	...	1	2	...	...	...
acre-feet.....	353,200	...	8,000	345,200	...	...	...
From drainage basin.....D. B. No.....	...	...	...	...	...	...	...
From sources within basin.....organizations...	126	31	31	50	3	2	11
acre-feet.....	5,495,127	127,861	757,430	2,763,873	1,429,780	127,340	416,183
Surface water.....organizations...	119	31	29	45	3	2	11
acre-feet.....	5,414,750	127,861	751,980	2,690,953	1,429,780	127,340	414,176
Ground water.....organizations...	14	...	4	9	...	...	1
acre-feet.....	80,377	...	5,450	72,920	...	...	2,007
From other organizations in the basin.....organizations receiving...	23	...	3	18	...	3	2
acre-feet.....	830,987	...	18,478	694,849	...	28,621	117,660
Total leaving conveyance systems.....organizations...	133	31	32	56	3	4	11
acre-feet.....	5,848,327	127,861	779,922	3,095,699	1,384,416	151,984	460,429
Conveyance loss in basin.....organizations...	97	25	24	39	1	3	8
acre-feet.....	953,886	14,366	142,403	656,267	9,966	56,529	130,884
Conveyed to another drainage basin.....organizations...	4	...	...	2	2	...	...
acre-feet.....	1,404,850	...	...	30,400	1,374,450	...	...
To drainage basin number.....D. B. No.....	...	...	...	...	...	...	...
Delivered for use in the basin.....organizations...	126	31	32	53	...	3	10
acre-feet.....	3,489,591	113,495	637,919	2,409,032	...	95,455	329,545
To farm irrigation water users.....organizations...	125	31	32	52	...	3	10
acre-feet.....	3,331,250	108,976	628,929	2,313,949	...	93,955	279,396
To domestic water users.....organizations...	21	...	2	12	...	1	4
acre-feet.....	102,717	1,596	7,590	86,413	...	2	7,118
For other use.....organizations...	15	2	1	7	...	2	5
acre-feet.....	55,624	2,923	1,000	8,670	...	1,498	43,031
Delivered to other irrigation organizations.....organizations delivering...	13	...	1	6	2	1	4
acre-feet.....	830,987	...	3,986	708,223	45,364	3,977	73,414
SIZE OF ORGANIZATION, 1959							
Size of organization (number of farm irrigation water users):							
None.....organizations...	9	...	...	3	5	1	1
1 to 3 water users.....organizations...	17	12	2	2	...	...	...
4 to 9 water users.....organizations...	28	13	5	7	1	...	2
10 to 29 water users.....organizations...	28	6	11	9	...	...	2
30 to 99 water users.....organizations...	19	...	8	10	...	1	1
100 to 299 water users.....organizations...	20	...	4	11	...	...	4
300 to 999 water users.....organizations...	12	...	2	10	...	2	...
1,000 or more water users.....organizations...	4	...	...	3	...	...	1
Size of organization (acre-feet of water delivered directly to farms):							
None.....organizations...	9	...	...	3	5	1	1
1 to 299 acre-feet.....organizations...	3	2	1	...	...	...	...
300 to 999 acre-feet.....organizations...	11	7	2	2	...	...	...
1,000 to 2,999 acre-feet.....organizations...	24	11	7	5	...	...	1
3,000 to 9,999 acre-feet.....organizations...	33	9	9	9	1	...	5
10,000 to 29,999 acre-feet.....organizations...	27	2	8	15	1	2	1
30,000 to 99,999 acre-feet.....organizations...	22	...	4	16	...	1	2
100,000 or more acre-feet.....organizations...	8	...	1	6	...	...	1
Size of organization (acre-feet of water conveyed):							
None.....organizations...	4	...	...	...	4	...	...
1 to 299 acre-feet.....organizations...	3	2	1	...	...	...	...
300 to 999 acre-feet.....organizations...	8	5	2	1	...	...	...
1,000 to 2,999 acre-feet.....organizations...	18	11	4	2	...	...	1
3,000 to 9,999 acre-feet.....organizations...	37	10	12	11	1	1	3
10,000 to 29,999 acre-feet.....organizations...	3	...	7	16	...	2	4
30,000 to 99,999 acre-feet.....organizations...	20	...	4	15	1	...	...
100,000 or more acre-feet.....organizations...	17	...	2	11	1	1	3

NA Not available.

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

Item (For definitions and explanations, see text)	San Joaquin River (II-E)						
	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users	
Irrigation organizations.....organizations 1959...	60	8	10	36	2	3	4
Service area, 1959:	55	20	11	17	2	NA	5
Area served, as reported							
by organizations.....acres...	1,080,380	7,000	122,056	(D)	(D)	122,709	9,598
Area irrigated, as reported							
by organizations.....acres...	910,623	1,190	99,599	(D)	(D)	71,444	9,248
Water users served, 1959, total.....water users...	32,278	20	901	(D)	(D)	797	3,298
Farm irrigation water users.....water users...	29,150	20	526	(D)	(D)	795	611
Residential water users.....water users...	3,123	...	375	(D)	(D)	1	2,687
Other water users.....water users...	5	...	...	(D)	(D)	1	...
TYPE OF SERVICE, 1959							
All water directly from surface and ground							
water sources.....organizations...	28	8	...	10	2	...	4
Total water conveyed.....acre-feet...	4,511,818	10,235	46,030	(D)	(D)	...	79,007
Water delivered.....acre-feet...	2,841,138	7,926	44,728	(D)	(D)	...	58,604
To farm and residential users							
only.....organizations...	23	8	...	8	...	...	3
acre-feet...	896,418	7,926	44,728	(D)	...	...	55,144
To farm and residential users and other							
irrigation organizations.....organizations...	4	...	...	2	1	...	1
Water to farm and residential							
users.....acre-feet...	597,883	...	...	(D)	(D)	...	343
Water to other irrigation							
organizations.....acre-feet...	1,148,815	...	...	1,250	(D)	...	3,117
To other irrigation organizations							
only.....organizations...	1	...	...	...	1	...	...
acre-feet...	198,022	...	...	...	(D)	...	...
Part of water from other							
organizations.....organizations...	11	...	4	7	...	1	...
Total water conveyed.....acre-feet...	1,350,510	...	364,867	(D)	...	107,802	...
From surface and ground water							
sources.....acre-feet...	312,786	...	58,398	(D)	...	1,320	...
From other irrigation organizations.....acre-feet...	1,037,724	...	306,469	(D)	...	106,822	...
Water delivered.....acre-feet...	1,063,579	...	297,424	(D)	...	80,180	...
To farm and residential users							
only.....organizations...	10	...	4	6	...	1	...
acre-feet...	979,969	...	297,424	(D)	...	80,180	...
To farm and residential users and other							
irrigation organizations.....organizations...	1	...	...	1	...	...	...
Water to farm and residential							
users.....acre-feet...	76,590	...	...	(D)	...	...	...
Water to other irrigation							
organizations.....acre-feet...	7,020	...	...	(D)	...	...	...
To other irrigation organizations							
only.....organizations...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
All of water from other organizations.....organizations...	21	...	2	19	...	1	...
Total water conveyed.....acre-feet...	324,437	...	9,449	(D)	...	98,209	...
Water delivered.....acre-feet...	271,098	...	9,335	(D)	...	53,452	...
To farm and residential users							
only.....organizations...	21	...	3	19	...	1	...
acre-feet...	271,098	...	9,335	(D)	...	53,452	...
To farm and residential users and other							
irrigation organizations.....organizations...	...	...	...	...	...	...	...
Water to farm and residential							
users.....acre-feet...	...	...	...	...	...	...	...
Water to other irrigation							
organizations.....acre-feet...	...	...	...	...	...	...	...
To other irrigation organizations							
only.....organizations...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
No water conveyed.....organizations...	...	...	...	...	...	...	...
WATER FROM OTHER SOURCES							
Organizations reporting no water from other							
sources used on the land served by the							
organization.....organizations...	36	4	7	22	1	2	2
acres served...	1,162,036	6,768	61,192	(D)	(D)	120,000	2,036
acres irrigated...	989,673	958	44,592	(D)	(D)	69,000	2,036
water delivered to farms (acre-feet)...	2,852,236	7,582	171,137	(D)	(D)	124,630	8,794
acre-feet per acre...	2.9	7.9	3.8	(D)	(D)	1.0	4.2
Organizations reporting water from other							
sources used on land served by the							
organization.....organizations...	23	4	3	14	...	1	2
acres served...	146,494	232	60,864	(D)	...	5,418	8,197
acres irrigated...	133,175	232	54,967	(D)	...	4,889	7,887
water delivered to farms (acre-feet)...	468,635	344	179,700	(D)	...	18,000	48,182
acre-feet per acre...	3.5	1.5	3.3	(D)	...	3.3	6.1
NEW CAPITAL INVESTMENT, 1950-1959							
Expenditures for additional new works and							
equipment for irrigation and drainage,							
January 1, 1950-December 31, 1959.....organizations...	33	...	7	22	2	3	2
By U. S. B. R.....dollars...	34,029,224	...	...	(D)	(D)	9,112,750	...
By water users organizations.....dollars...	61,291,525	...	601,655	(D)	...	652,702	695,910

See footnotes at end of table.

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950-Con.

San Joaquin River (II-E)							
Item (For definitions and explanations, see text)	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users	
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
Total entering conveyance systems.....organizations.....	60	8	10	36	2	3	4
acre-feet.....	4,832,908	10,235	104,428	(D)	(D)	1,1320	79,007
From another drainage basin.....organizations.....	4	...	...	3	1	...	...
acre-feet.....	1,478,261	...	...	(D)	(D)	...	...
From drainage basin.....D. B. No.....	...	...	...	...	...	...	...
From sources within basin.....organizations.....	36	8	8	15	1	1	4
acre-feet.....	3,354,647	10,235	104,428	(D)	(D)	1,1320	79,007
Surface water.....organizations.....	25	3	5	12	1	1	4
acre-feet.....	2,847,151	9,655	46,531	(D)	(D)	1,1320	79,007
Ground water.....organizations.....	22	5	6	11	...	...	...
acre-feet.....	507,496	580	57,897	(D)	...	...	...
From other organizations in the basin.....organizations receiving.....	30	...	6	24	...	3	...
acre-feet.....	1,353,857	...	315,918	(D)	...	207,031	...
Total leaving conveyance systems.....organizations.....	60	8	10	36	2	3	4
acre-feet.....	4,832,908	10,235	420,346	(D)	(D)	205,711	75,890
Conveyance loss in basin.....organizations.....	35	5	6	19	2	2	3
acre-feet.....	745,739	2,309	68,859	(D)	(D)	72,072	20,403
Conveyed to another drainage basin.....organizations.....	4	...	...	2	2	...	...
acre-feet.....	1,206,751	...	...	(D)	(D)	...	...
To drainage basin number.....D. B. No.....	...	...	...	...	...	...	...
Delivered for use in the basin.....organizations.....	59	8	10	36	1	3	4
acre-feet.....	2,880,418	7,926	351,487	(D)	(D)	133,639	55,487
To farm irrigation water users.....organizations.....	58	8	10	36	1	3	4
acre-feet.....	2,819,536	7,926	350,837	(D)	(D)	133,630	53,717
To domestic water users.....organizations.....	4	...	...	1	...	1	2
acre-feet.....	2,422	...	650	(D)	...	2	1,770
For other use.....organizations.....	4	...	...	4	...	1	...
acre-feet.....	58,460	...	...	(D)	...	7	...
Delivered to other irrigation organizations..... organizations delivering.....	5	...	...	2	2	...	1
acre-feet.....	1,353,857	...	...	(D)	(D)	...	3,117
SIZE OF ORGANIZATION, 1959							
Size of organization (number of farm irrigation water users):							
None.....organizations.....	1	...	...	(D)	(D)	...	...
1 to 3 water users.....organizations.....	12	7	2	(D)	(D)	...	...
4 to 9 water users.....organizations.....	10	1	1	(D)	(D)	...	...
10 to 29 water users.....organizations.....	12	...	2	(D)	(D)	...	1
30 to 99 water users.....organizations.....	7	...	4	(D)	(D)	1	...
100 to 299 water users.....organizations.....	6	...	1	(D)	(D)	1	2
300 to 999 water users.....organizations.....	5	...	...	(D)	(D)	1	1
1,000 or more water users.....organizations.....	7	...	...	(D)	(D)	...	...
Size of organization (acre-feet of water delivered directly to farms):							
None.....organizations.....	1	...	...	(D)	(D)	...	...
1 to 299 acre-feet.....organizations.....	6	6	...	(D)	(D)	...	...
300 to 999 acre-feet.....organizations.....	2	...	1	(D)	(D)	...	...
1,000 to 2,999 acre-feet.....organizations.....	5	1	1	(D)	(D)	...	...
3,000 to 9,999 acre-feet.....organizations.....	17	1	3	(D)	(D)	...	3
10,000 to 29,999 acre-feet.....organizations.....	11	...	2	(D)	(D)	1	...
30,000 to 99,999 acre-feet.....organizations.....	10	...	2	(D)	(D)	2	1
100,000 or more acre-feet.....organizations.....	8	...	1	(D)	(D)	...	...
Size of organization (acre-feet of water conveyed):							
None.....organizations.....	...	...	...	(D)	(D)	...	...
1 to 299 acre-feet.....organizations.....	6	6	...	(D)	(D)	...	...
300 to 999 acre-feet.....organizations.....	2	...	1	(D)	(D)	...	...
1,000 to 2,999 acre-feet.....organizations.....	5	1	1	(D)	(D)	...	...
3,000 to 9,999 acre-feet.....organizations.....	15	1	3	(D)	(D)	...	1
10,000 to 29,999 acre-feet.....organizations.....	11	...	2	(D)	(D)	1	2
30,000 to 99,999 acre-feet.....organizations.....	10	...	2	(D)	(D)	1	1
100,000 or more acre-feet.....organizations.....	11	...	1	(D)	(D)	1	...

D Data not shown to avoid disclosure of information for individual organizations.

NA Not available.

Water was transferred to the basin and released to natural stream channels in excess of the quantity of surface water withdrawn by irrigation organizations. The net effect was to increase the available surface water supply in the basin or State.

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

		San Joaquin Valley above San Joaquin River (II-F)						
Item (For definitions and explanations, see text)	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other	
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users		
Irrigation organizations.....organizations 1959...	166	53	73	31	2	11	7	
.....1949...	245	117	94	20	1	NA	13	
Service area, 1959:								
Area served, as reported								
by organizations.....acres...	1,621,070	12,731	653,593	884,569	3,913	199,994	66,264	
Area irrigated, as reported								
by organizations.....acres...	1,392,624	12,351	536,167	775,557	2,285	184,723	66,264	
Water users served, 1959, total.....water users...	34,291	362	3,090	30,395	10	4,378	434	
Farm irrigation water users.....water users...	32,441	294	2,926	28,782	5	3,065	434	
Residential water users.....water users...	1,844	67	164	1,613	...	1,313	...	
Other water users.....water users...	6	1	...	...	5	...	...
TYPE OF SERVICE, 1959								
All water directly from surface and ground								
water sources.....organizations...	128	51	59	10	2	...	6	
Total water conveyed.....acre-feet...	2,487,560	85,250	728,334	627,937	885,368	...	160,671	
Water delivered.....acre-feet...	1,971,876	75,334	579,956	361,121	826,558	...	128,907	
To farm and residential users								
only.....organizations...	115	50	52	9	...	...	4
acre-feet...	574,432	50,071	351,246	162,601	...	...	10,514
To farm and residential users and other								
irrigation organizations.....organizations...	11	...	7	1	1	...	2	
Water to farm and residential								
users.....acre-feet...	384,182	...	109,116	171,720	4,160	...	99,186	
Water to other irrigation								
organizations.....acre-feet...	220,256	...	119,594	26,800	54,655	...	19,207	
To other irrigation organizations								
only.....organizations...	2	1	...	...	1	...	...
acre-feet...	793,006	25,263	...	...	767,743	...	...
Part of water from other								
organizations.....organizations...	18	1	6	11	...	3	...	
Total water conveyed.....acre-feet...	762,813	910	28,007	733,896	...	64,619	...	
From surface and ground water								
sources.....acre-feet...	272,885	530	18,549	253,806	...	2,324	...	
From other irrigation organizations.....acre-feet...	489,928	380	9,458	480,090	...	62,295	...	
Water delivered.....acre-feet...	376,332	910	25,276	550,146	...	63,630	...	
To farm and residential users								
only.....organizations...	17	1	6	10	...	3	...	
acre-feet...	455,166	910	25,276	428,980	...	63,630	...	
To farm and residential users and other								
irrigation organizations.....organizations...	1	...	...	1	...	...	...
Water to farm and residential								
users.....acre-feet...	120,256	...	...	120,256	...	...	...
Water to other irrigation								
organizations.....acre-feet...	910	...	...	910	...	...	...
To other irrigation organizations								
only.....organizations...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
All of water from other organizations.....organizations...	19	1	7	10	...	8	1	
Total water conveyed.....acre-feet...	524,244	910	71,645	433,484	...	388,227	18,205	
Water delivered.....acre-feet...	484,452	910	60,960	413,005	...	372,800	9,577	
To farm and residential users								
only.....organizations...	19	1	7	10	...	8	1	
acre-feet...	484,452	910	60,960	413,005	...	372,800	9,577	
To farm and residential users and other								
irrigation organizations.....organizations...	...	...	...	...	...	...	...
Water to farm and residential								
users.....acre-feet...	...	...	...	...	...	...	...
Water to other irrigation								
organizations.....acre-feet...	...	...	...	...	...	...	...
To other irrigation organizations								
only.....organizations...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
No water conveyed.....organizations...	1	...	1	...	...	...	...
WATER FROM OTHER SOURCES								
Organizations reporting no water from other								
sources used on the land served by the								
organization.....organizations...	93	47	32	13	1	1	...	
acres served...	659,613	10,511	197,766	444,854	6,482	4,000	...	
acres irrigated...	622,644	10,381	197,222	410,983	4,058	4,000	...	
water delivered to farms (acre-feet)...	784,247	48,499	98,988	623,690	13,070	13,978	...	
acre-feet per acre...	1.3	4.7	0.5	1.5	3.2	3.5	...	
Organizations reporting water from other								
sources used on land served by the								
organization.....organizations...	70	5	40	18	...	10	7	
acres served...	1,034,026	2,220	455,827	509,715	...	195,994	66,264	
acres irrigated...	841,753	1,970	338,945	434,574	...	180,723	66,264	
water delivered to farms (acre-feet)...	1,354,100	2,719	447,610	784,494	...	420,886	119,577	
acre-feet per acre...	1.6	1.4	1.3	1.8	...	2.1	1.8	
NEW CAPITAL INVESTMENT, 1950-1959								
Expenditures for additional new works and								
equipment for irrigation and drainage,								
January 1, 1950-December 31, 1959.....organizations...	94	21	43	22	2	9	6	
By U. S. B. R.....dollars...	93,566,915	...	...	41,197,200	52,369,715	41,197,200	...
By water users organizations.....dollars...	9,588,495	82,082	2,411,180	6,735,744	...	1,366,201	359,489	

See Footnotes at end of table.

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

San Joaquin Valley above San Joaquin River (II-F)							
Item (For definitions and explanations, see text)	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users	
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
Total entering conveyance systems.....organizations... acre-feet....	165 2,760,445	53 85,780	72 746,883	31 881,743	2 885,368	11 2,324	7 160,671
From another drainage basin.....organizations... acre-feet....	2 861,551	...	...	...	2 861,551	...	...
From drainage basin.....D. B. No.....	...	...	...	...	...	...	...
From sources within basin.....organizations... acre-feet....	145 1,898,894	52 85,780	65 746,883	21 881,743	1 23,817	2 2,324	6 160,671
Surface water.....organizations... acre-feet....	96 1,659,667	28 78,491	46 663,107	15 733,581	1 23,817	6 1,101	6 160,671
Ground water.....organizations... acre-feet....	60 239,227	26 7,289	24 83,776	10 148,162	...	2 3,425	...
From other organizations in the basin.....organizations receiving... acre-feet....	37 1,014,172	2 1,290	13 81,103	21 913,574	...	11 450,522	1 18,205
Total leaving conveyance systems.....organizations... acre-feet....	165 2,760,445	53 61,807	72 708,392	31 1,767,607	2 62,970	11 452,846	7 159,669
Conveyance loss in basin.....organizations... acre-feet....	106 492,153	30 9,916	47 150,576	21 250,287	2 40,982	7 16,038	6 40,392
Conveyed to another drainage basin.....organizations... acre-feet....	1 142,080	...	...	1 142,080	...	...	...
To drainage basin number.....D. B. No.....	...	...	...	...	...	...	...
Delivered for use in the basin.....organizations... acre-feet....	164 2,126,212	52 51,891	72 597,816	31 1,375,240	2 21,988	11 436,808	7 119,277
To farm irrigation water users.....organizations... acre-feet....	163 2,014,957	52 51,218	72 546,598	31 1,293,314	1 4,160	11 434,864	7 119,277
To domestic water users.....organizations... acre-feet....	13 3,531	8 673	...	5 2,858	...	2 1,566	...
For other use.....organizations... acre-feet....	5 107,724	...	1 11,218	2 78,678	2 17,828	...	...
Delivered to other irrigation organizations..... organizations delivering... acre-feet....	24 1,014,172	1 25,263	7 119,594	2 27,710	2 822,398	...	2 19,207
SIZE OF ORGANIZATION, 1959							
Size of organization (number of farm irrigation water users):							
None.....organizations... 1 to 3 water users.....organizations... 4 to 9 water users.....organizations... 10 to 29 water users.....organizations... 30 to 99 water users.....organizations... 100 to 299 water users.....organizations... 300 to 999 water users.....organizations... 1,000 or more water users.....organizations...	4 27 39 40 30 13 10 3	1 23 20 9 ...	2 3 17 25 20 2 ...	...	1...	...	...
Size of organization (acre-feet of water delivered directly to farms):							
None.....organizations... 1 to 299 acre-feet.....organizations... 300 to 999 acre-feet.....organizations... 1,000 to 2,999 acre-feet.....organizations... 3,000 to 9,999 acre-feet.....organizations... 10,000 to 29,999 acre-feet.....organizations... 30,000 to 99,999 acre-feet.....organizations... 100,000 or more acre-feet.....organizations...	3 30 36 30 28 12 ...	1 25 15 8 4 ...	1 5 20 18 15 10 2 1	...	1...	...	...
Size of organization (acre-feet of water conveyed):							
None.....organizations... 1 to 299 acre-feet.....organizations... 300 to 999 acre-feet.....organizations... 1,000 to 2,999 acre-feet.....organizations... 3,000 to 9,999 acre-feet.....organizations... 10,000 to 29,999 acre-feet.....organizations... 30,000 to 99,999 acre-feet.....organizations... 100,000 or more acre-feet.....organizations...	1 29 30 21 34 17 13 13	...	1 5 16 19 18 7 4 3	...	...	...	...

NA Not available.

^aWater was transferred to the basin and released to natural stream channels in excess of the quantity of surface water withdrawn by irrigation organizations. The net effect was to increase the available surface water supply in the basin or State.

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

Item (For definitions and explanations, see text)	Santa Maria River and Basins south (II-C)						
	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other
		Unincorporated	Incorporated		Projects and storage systems operated by bureaus	Operated by water users	
Irrigation organizations.....organizations 1959.....	629	259	293	40	1	6	36
by organizations.....1949.....	951	467	402	23	...	NA	59
Service areas, 1959:							
Area served, as reported							
by organizations.....acres.....	720,001	19,521	312,323	334,920	...	4,453	53,237
Area irrigated, as reported							
by organizations.....acres.....	304,678	17,142	194,911	52,374	...	4,453	40,251
Water users served, 1959, total.....water users.....	912,386	7,421	57,944	38,138	...	4,109	808,883
Farm irrigation water users.....water users.....	27,608	1,417	15,634	7,022	...	463	3,535
Residential water users.....water users.....	877,912	5,979	42,054	30,885	...	3,639	799,924
Other water users.....water users.....	6,866	25	256	231	...	7	6,354
TYPE OF SERVICE, 1959							
All water directly from surface and ground							
water sources.....organizations.....	510	258	223	12	1	1	16
Total water conveyed.....acres-foot.....	738,930	63,392	305,860	338,585	8,516	2,375	22,577
Water delivered.....acres-foot.....	636,177	61,394	247,153	298,240	8,516	1,384	20,874
To farm and residential users							
only.....organizations.....	488	255	209	9	...	...	15
acres-foot.....	284,129	56,664	195,246	13,962	...	...	18,257
To farm and residential users and other							
irrigation organizations.....organizations.....	17	2	12	2	...	1	1
Water to farm and residential							
users.....acres-foot.....	36,283	1,684	27,191	5,251	...	609	2,157
Water to other irrigation							
organizations.....acres-foot.....	23,613	483	20,317	2,353	...	775	460
To other irrigation organizations							
only.....organizations.....	4	1	1	1	1	...	...
acres-foot.....	292,152	2,563	4,399	276,674	8,516	...	...
Part of water from other							
organizations.....organizations.....	70	...	44	10	...	1	16
Total water conveyed.....acres-foot.....	1,099,947	...	284,828	93,274	...	12,846	721,845
From surface and ground water							
sources.....acres-foot.....	632,719	...	212,573	31,316	...	4,330	388,830
From other irrigation organizations.....acres-foot.....	467,228	...	72,255	61,958	...	8,516	333,015
Water delivered.....acres-foot.....	989,153	...	253,938	85,943	...	9,704	649,252
To farm and residential users							
only.....organizations.....	47	...	31	6	...	...	10
acres-foot.....	229,650	...	125,007	11,031	...	...	93,612
To farm and residential users and other							
irrigation organizations.....organizations.....	22	...	13	3	...	1	6
Water to farm and residential							
users.....acres-foot.....	659,958	...	74,240	43,932	...	...	541,786
Water to other irrigation							
organizations.....acres-foot.....	89,841	...	54,711	21,276	...	9,704	13,854
To other irrigation organizations							
only.....organizations.....	1	...	...	1	...	...	...
acres-foot.....	9,704	...	...	9,704	...	...	...
All of water from other organizations.....organizations.....	48	1	26	17	...	3	4
Total water conveyed.....acres-foot.....	215,713	136	44,437	183,697	...	9,704	7,443
Water delivered.....acres-foot.....	230,083	136	43,619	179,054	...	9,679	7,274
To farm and residential users							
only.....organizations.....	32	1	21	9	...	2	1
acres-foot.....	43,461	136	27,066	15,967	...	2,232	292
To farm and residential users and other							
irrigation organizations.....organizations.....	9	...	4	4	...	1	1
Water to farm and residential							
users.....acres-foot.....	20,091	...	11,431	7,443	...	6,104	1,217
Water to other irrigation							
organizations.....acres-foot.....	11,893	...	967	8,628	...	2,333	2,298
To other irrigation organizations							
only.....organizations.....	7	...	1	4	...	...	2
acres-foot.....	154,638	...	4,159	147,016	...	...	3,467
No water conveyed.....organizations.....	1	...	...	1	...	...	...
WATER FROM OTHER SOURCES							
Organizations reporting no water from other							
sources used on the land served by the							
organization.....organizations.....	528	241	234	24	...	3	29
acres served.....	410,680	17,902	234,101	75,723	...	3,988	82,484
water delivered to farms (acres-foot).....	253,040	15,556	143,085	24,407	...	3,983	69,992
acres-foot per acre.....	578,530	48,737	321,255	34,213	...	5,526	174,325
Organizations reporting water from other							
sources used on land served by the							
organization.....organizations.....	87	17	56	9	...	1	5
acres served.....	340,549	1,619	78,222	259,197	...	470	1,511
acres irrigated.....	82,866	1,586	51,826	27,967	...	313	1,467
water delivered to farms (acres-foot).....	159,622	4,091	110,707	40,536	...	313	4,464
acres-foot per acre.....	1.9	2.6	2.1	1.4	...	0.7	3.0
NEW CAPITAL INVESTMENT, 1950-1959							
Expenditures for additional new works and							
equipment for irrigation and drainage,							
January 1, 1950-December 31, 1959.....organizations.....	245	88	118	26	1	6	12
By U. S. B. R.....dollars.....	101,165,959	...	...	67,035,400	34,130,559	67,035,400	...
By water users organizations.....dollars.....	30,219,098	245,915	9,077,535	16,727,209	...	28,685	4,168,439

See footnote at end of table.

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

Santa Maria River and Basins south (II-G)								
Item (For definitions and explanations, see text)	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other	
		Unincorporated	Incorporated		Projects and storage systems operated by Bureau	Operated by water users		
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959								
Total entering conveyance systems.....organizations... acre-feet...	628 1,492,749	259 63,392	293 518,433	39 369,901	1 8,516	5 6,705	36 532,507	
From another drainage basin.....organizations... acre-feet...	2 579,459	...	...	1 276,708	...	...	1 302,751
From drainage basin.....D. B. No.....	...	...	...	...	...	...	...
From sources within basin.....organizations... acre-feet...	578 913,290	258 63,392	267 518,433	21 93,193	1 8,516	2 6,705	31 229,756	
Surface water.....organizations... acre-feet...	68 223,674	8 4,612	37 103,996	11 71,047	1 8,516	1 2,375	1 35,503	
Ground water.....organizations... acre-feet...	553 689,616	252 58,780	258 414,437	15 22,146	...	...	28 194,253
From other organizations in the basin.....organizations receiving... acre-feet...	118 581,841	1 136	70 116,692	27 245,655	...	4 18,220	20 219,358	
Total leaving conveyance systems.....organizations... acre-feet...	628 1,492,749	259 60,482	293 550,576	39 149,905	1 ...	5 13,103	36 731,786	
Conveyance loss in basin.....organizations... acre-feet...	157 91,492	14 172	100 32,271	22 9,511	...	3 1,511	21 49,538	
Conveyed to another drainage basin.....organizations... acre-feet...	...	...	...	...	...	...	...
To drainage basin number.....D. B. No.....	...	...	...	...	...	...	...
Delivered for use in the basin.....organizations... acre-feet...	619 1,401,257	259 60,310	291 518,305	34 140,394	...	5 11,592	35 682,248	
To farm irrigation water users.....organizations... acre-feet...	615 641,356	258 52,828	290 431,962	33 76,573	...	4 5,839	34 81,993	
To domestic water users.....organizations... acre-feet...	172 632,216	51 5,656	73 28,219	27 23,013	...	4 3,106	21 575,328	
For other use.....organizations... acre-feet...	52 127,685	8 1,826	26 58,124	9 42,808	...	2 2,647	9 24,927	
Delivered to other irrigation organizations..... organizations delivering... acre-feet...	99 581,841	3 3,046	31 84,549	15 465,651	1 8,516	3 11,822	9 20,079	
SIZE OF ORGANIZATION, 1959								
Size of organization (number of farm irrigation water users):								
None.....organizations...	16	2	4	7	1	2	2	
1 to 3 water users.....organizations...	156	123	26	4	...	1	3	
4 to 9 water users.....organizations...	176	99	72	1	...	...	4
10 to 29 water users.....organizations...	147	32	100	7	...	...	8
30 to 99 water users.....organizations...	78	3	55	8	...	1	12	
100 to 299 water users.....organizations...	37	...	26	7	...	2	4	
300 to 999 water users.....organizations...	16	...	9	5	...	...	2
1,000 or more water users.....organizations...	3	...	1	1	...	...	1
Size of organization (acre-feet of water delivered directly to farms):								
None.....organizations...	14	1	3	7	1	2	2	
1 to 299 acre-feet.....organizations...	329	195	107	14	...	1	13	
300 to 999 acre-feet.....organizations...	180	63	108	3	...	1	6	
1,000 to 2,999 acre-feet.....organizations...	68	...	46	11	...	1	11	
3,000 to 9,999 acre-feet.....organizations...	26	...	20	4	...	1	2	
10,000 to 29,999 acre-feet.....organizations...	11	...	9	1	...	...	1
30,000 to 99,999 acre-feet.....organizations...	...	...	...	...	...	...	...
100,000 or more acre-feet.....organizations...	1	...	...	...	...	...	1
Size of organization (acre-feet of water conveyed):								
None.....organizations...	1	...	...	1	...	1	...
1 to 299 acre-feet.....organizations...	300	192	94	7	...	1	7	
300 to 999 acre-feet.....organizations...	174	63	101	5	...	...	5
1,000 to 2,999 acre-feet.....organizations...	75	3	57	8	...	2	7	
3,000 to 9,999 acre-feet.....organizations...	47	1	28	10	1	1	7	
10,000 to 29,999 acre-feet.....organizations...	23	...	10	5	...	1	8	
30,000 to 99,999 acre-feet.....organizations...	...	...	...	2	...	...	...
100,000 or more acre-feet.....organizations...	3	...	...	2	...	...	1

NA Not available.

State Table 5.—NUMBER OF IRRIGATION ORGANIZATIONS, TYPE OF SERVICE, NEW CAPITAL INVESTMENT, AND WATER CONVEYED, BY SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUS OF 1959

Item (For definitions and explanations, see text)		California, total				Klamath River to Santa Maria River excluding Central Valley (II-B)			
		Size of organization, by total water conveyed							
		0-999 acre-feet	1,000- 9,999 acre-feet	10,000- 99,999 acre-feet	100,000 or more acre-feet	0-999 acre-feet	1,000- 9,999 acre-feet	10,000- 99,999 acre-feet	100,000 or more acre-feet
1	Number of organizations.....organizations...	598	287	145	45	21	9	9	..
TYPE OF SERVICE									
2	All water directly from surface and ground sources.....organizations...	540	202	80	24	16	9	7	..
3	Total water conveyed.....acre-feet...	148,487	736,216	2,356,695	13,575,664	4,025	29,020	175,025	..
4	Water delivered.....acre-feet...	143,560	623,149	1,857,486	12,778,680	3,870	19,668	100,755	..
5	To farm and residential users only.....organizations...	531	183	68	11	15	5	5	..
6	To farm and residential users only.....acre-feet...	137,592	556,502	1,612,913	2,088,084	3,317	9,909	82,989	..
7	To farm and residential users and other irrigation organizations.....organizations...	7	12	9	9	...	1	1	..
8	Water to farm and residential users.....acre-feet...	4,351	25,332	135,876	1,135,277	...	1,833	6,625	..
9	Water to other irrigation organizations.....acre-feet...	1,064	11,238	59,026	1,401,226	...	27	238	..
10	To other irrigation organizations only.....organizations...	1	6	3	4	1	2	1	..
11	To other irrigation organizations only.....acre-feet...	553	30,077	49,671	7,754,093	553	8,099	11,303	..
12	Part of water from other organizations.....organizations...	27	36	43	19	3	...	2	..
13	Total water conveyed.....acre-feet...	11,708	152,138	1,476,316	8,905,209	418	...	34,850	..
14	From surface and ground water sources.....acre-feet...	7,056	85,375	781,775	1,369,413	204	...	14,895	..
15	From other irrigation organizations.....acre-feet...	4,652	66,763	694,541	9,274,622	214	...	19,955	..
16	Water delivered.....acre-feet...	11,267	136,769	1,257,771	6,962,637	418	...	28,746	..
17	To farm and residential users only.....organizations...	24	29	28	10	3	...	2	..
18	To farm and residential users only.....acre-feet...	9,911	110,708	860,806	1,798,310	418	...	28,746	..
19	To farm and residential users and other irrigation organizations.....organizations...	3	7	14	7	...	...	...	..
20	Water to farm and residential users.....acre-feet...	997	19,541	287,316	3,211,555	...	...	...	..
21	Water to other irrigation organizations.....acre-feet...	399	6,520	99,945	1,952,772	...	...	...	..
22	To other irrigation organizations only.....organizations...	...	...	1	...	...	...	...	..
23	To other irrigation organizations only.....acre-feet...	...	...	9,704	...	...	...	...	..
24	All of water from other organizations.....organizations...	22	49	22	4	2	...	...	..
25	Total water conveyed.....acre-feet...	8,884	198,174	570,440	728,720	51	...	...	..
26	Water delivered.....acre-feet...	8,526	181,989	478,043	685,407	51	...	...	..
27	To farm and residential users only.....organizations...	20	37	20	3	2	...	...	..
28	To farm and residential users only.....acre-feet...	7,991	135,393	449,935	570,047	51	...	...	..
29	To farm and residential users and other irrigation organizations.....organizations...	2	7	...	...	...	...	...	..
30	Water to farm and residential users.....acre-feet...	473	19,618	...	...	...	...	...	..
31	Water to other irrigation organizations.....acre-feet...	62	11,831	...	...	...	...	...	..
32	To other irrigation organizations only.....organizations...	...	5	2	1	...	...	...	..
33	To other irrigation organizations only.....acre-feet...	...	15,147	28,108	115,360	...	...	...	..
34	No water conveyed.....organizations...	9	...	...	...	...	...	...	..
WATER FROM OTHER SOURCES									
35	Organizations reporting no water from other sources used on land served by the organization.....organizations...	509	202	95	27	16	6	6	..
36	acres served.....acres served...	90,696	327,306	1,071,946	2,203,443	1,699	1,927	27,985	..
37	acres irrigated.....acres irrigated...	52,603	198,491	904,263	1,909,446	1,338	1,683	24,926	..
38	Organizations reporting water from other sources used on land served by the organization.....organizations...	78	73	44	13	4	...	2	..
39	acres served.....acres served...	18,582	331,262	763,945	600,319	838	...	6,200	..
40	acres irrigated.....acres irrigated...	13,451	167,161	480,348	564,954	799	...	6,200	..
NEW CAPITAL INVESTMENT, 1950-1959									
41	Expenditures for additional new works and equipment for irrigation and drainage, January 1, 1950-December 31, 1959.....dollars...	209	146	97	35	6	1	7	..
42	.....dollars...	80,001,035	148,656,826	69,713,101	197,599,960	26,025	230,000	11,337,428	..
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959									
43	Total entering conveyance systems in basin.....organizations...	589	287	145	45	21	9	9	..
44	.....acre-feet...	155,543	821,591	3,138,470	13,206,251	4,229	29,020	189,920	..
45	From another drainage basin.....organizations...	...	...	...	2	...	...	1	..
46	.....acre-feet...	...	...	...	387,033	...	...	68,669	..
47	From Drainage Basin number.....D. B. No.....	...	...	...	...	...	...	...	..
48	From natural sources within basin.....organizations...	567	238	123	40	19	9	8	..
49	.....acre-feet...	155,543	821,591	3,138,470	12,819,218	4,229	29,020	121,251	..
50	Surface water.....organizations...	75	145	104	40	6	5	5	..
51	.....acre-feet...	27,090	532,283	2,565,525	12,151,141	648	19,710	50,021	..
52	Ground water.....organizations...	503	122	50	13	14	6	4	..
53	.....acre-feet...	128,453	289,308	572,945	668,077	3,581	9,310	71,230	..
54	From other organizations in the basin.....organizations receiving...	49	85	64	21	5	...	...	..
55	.....acre-feet...	13,536	264,937	1,264,981	10,003,342	265	...	19,955	..
56	Total leaving conveyance systems.....organizations...	589	287	145	45	21	9	9	..
57	.....acre-feet...	167,001	1,011,715	4,156,997	11,986,162	3,941	20,894	198,334	..
58	Conveyance loss in basin.....organizations...	113	178	96	39	2	2	4	..
59	.....acre-feet...	4,049	92,571	630,425	2,685,023	155	1,027	10,789	..
60	Conveyed to another drainage basin.....organizations...	...	1	...	1	...	...	...	..
61	.....acre-feet...	...	3,300	...	299,479	...	...	...	..
62	To drainage basin number.....D. B. No.....	...	...	...	...	...	...	...	..
63	Delivered for use in the basin.....organizations...	588	278	140	40	20	7	8	..
64	.....acre-feet...	162,952	915,844	3,526,572	9,001,640	3,786	19,867	187,545	..
65	To farm irrigation water users.....organizations...	587	275	138	39	...	...	...	..
66	.....acre-feet...	151,918	770,400	3,102,382	8,325,752	3,731	5,863	77,820	..
67	To residential water users.....organizations...	115	85	32	5	3	3	2	..
68	.....acre-feet...	9,397	96,694	244,464	477,521	55	5,879	40,140	..
69	For other use.....organizations...	...	15	34	9	...	...	...	..
70	.....acre-feet...	1,677	48,750	179,726	198,367	...	8,125	69,585	..
71	Delivered to other irrigation organizations.....organizations delivering...	13	37	28	18	1	3	2	..
72	.....acre-feet...	2,078	74,813	246,454	11,223,451	553	8,126	11,541	..
AVERAGE DELIVERY OF IRRIGATION WATER PER ACRE, 1959									
Per acre irrigated, as reported by irrigation organization:									
73	All organizations.....acre-feet...	2.3	2.1	2.3	3.5	1.7	3.5	2.9	..
74	Organizations reporting no water from other sources used on land served by the organization.....organizations...	509	202	95	27	16	6	6	..
75	.....acre-feet...	2.5	2.6	2.4	3.7	1.9	3.5	2.4	..

*Water was transferred to the basin and released to natural stream channels in excess of the quantity of surface water withdrawn by irrigation organizations. The net effect was to increase the available surface water supply in the basin or State.

State Table 5.—NUMBER OF IRRIGATION ORGANIZATIONS, TYPE OF SERVICE, NEW CAPITAL INVESTMENT, AND WATER CONVEYED, BY SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUS OF 1959—Continued

Item (For definitions and explanations, see text)		Sacramento-San Joaquin Delta area and Sacramento River (II-C and II-D)				San Joaquin River (II-E)			
		Size of organization, by total water conveyed							
		0-999 acre-feet	1,000- 9,999 acre-feet	10,000- 99,999 acre-feet	100,000 or more acre-feet	0-999 acre-feet	1,000- 9,999 acre-feet	10,000- 99,999 acre-feet	100,000 or more acre-feet
1	Number of organizations.....organizations...	15	55	50	17	8	20	21	11
TYPE OF SERVICE									
2	All water directly from surface and ground sources.....organizations...	11	49	41	9	7	7	6	8
3	Total water conveyed.....acre-feet...	5,838	208,224	1,408,012	3,015,505	935	40,660	135,410	4,334,813
4	Water delivered.....acre-feet...	5,428	185,294	1,104,670	1,424,101	906	38,362	106,839	2,695,031
5	To farm and residential users only.....organizations...	11	48	36	5	7	7	4	4
6	To farm and residential users and other irrigation organizations.....organizations...	5,428	178,794	987,979	626,566	906	38,362	103,379	753,771
7	Water to farm and residential users.....acre-feet...	...	...	4	3	...	...	1	3
8	Water to other irrigation organizations.....acre-feet...	...	...	72,231	197,285	...	...	343	597,540
9	To other irrigation organizations only.....organizations...	...	...	31,355	48,250	...	...	3,117	1,145,698
10	To other irrigation organizations only.....organizations...	...	...	1	1	...	...	...	1
11	Part of water from other organizations.....organizations...	...	6,500	13,105	552,000	...	...	...	198,022
12	Total water conveyed.....acre-feet...	...	2	7	8	...	1	6	3
13	From surface and ground water sources.....acre-feet...	...	18,325	214,347	1,754,214	958	5,250	366,226	978,076
14	From other irrigation organizations.....acre-feet...	...	5,993	153,306	1,051,449	270	4,000	209,852	98,666
15	Water delivered.....acre-feet...	...	12,332	61,041	702,765	688	1,250	156,374	879,412
16	To farm and residential users only.....organizations...	...	16,885	145,775	1,339,576	858	4,773	317,802	740,146
17	To farm and residential users and other irrigation organizations.....organizations...	...	16,885	127,777	890,200	858	4,773	234,192	740,146
18	Water to farm and residential users.....acre-feet...	...	...	7,995	283,579	...	...	76,590	...
19	To other irrigation organizations only.....organizations...	...	...	10,003	165,797	...	...	7,020	...
20	To other irrigation organizations only.....organizations...	...	...	...	...	...	...	...	...
21	All of water from other organizations.....organizations...	...	4	2	...	...	12	9	...
22	Total water conveyed.....acre-feet...	...	21,286	33,563	...	...	54,774	269,663	...
23	Water delivered.....acre-feet...	...	15,176	28,049	...	...	54,288	216,810	...
24	To farm and residential users only.....organizations...	...	3	2	...	...	12	9	...
25	To farm and residential users and other irrigation organizations.....organizations...	...	11,199	28,049	...	...	54,288	216,810	...
26	Water to farm and residential users.....acre-feet...	...	...	...	...	...	...	...	...
27	To other irrigation organizations only.....organizations...	...	...	...	...	...	...	...	...
28	To other irrigation organizations only.....organizations...	...	...	...	...	...	...	...	...
29	No water conveyed.....organizations...	4	...	...	...	...	...	...	...
WATER FROM OTHER SOURCES									
30	Organizations reporting no water from other sources used on land served by the organization.....organizations...	11	47	42	14	4	10	13	9
31	Acres served.....acres served...	2,585	63,535	344,484	590,130	4,248	38,910	187,123	931,755
32	Acres irrigated.....acres irrigated...	1,814	51,203	295,314	390,276	398	14,759	143,548	830,968
33	Organizations reporting water from other sources used on land served by the organization.....organizations...	...	6	7	2	4	10	8	1
34	Acres served.....acres served...	...	9,589	75,049	31,784	232	30,885	65,218	50,159
35	Acres irrigated.....acres irrigated...	...	8,327	72,913	31,034	232	19,318	63,466	50,159
NEW CAPITAL INVESTMENT, 1950-1959									
36	Expenditures for additional new works and equipment for irrigation and drainage, January 1, 1950-December 31, 1959.....organizations...	9	22	32	15	...	9	14	10
37	dollars.....dollars...	9,288,026	46,468,604	11,624,663	11,901,706	...	595,710	4,586,954	90,138,485
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959									
38	Total entering conveyance systems in basin.....organizations...	11	55	50	17	8	20	21	11
39	From another drainage basin.....organizations...	5,838	214,217	1,561,318	4,066,954	1,205	44,660	353,566	4,433,477
40	From natural sources within basin.....organizations...	...	...	8,000	345,200	...	...	30,400	1,447,861
41	From drainage basin number.....D. B. No. ....	...	...	...	...	...	...	...	...
42	From natural sources within basin.....organizations...	11	51	47	17	8	8	11	9
43	Surface water.....acre-feet...	5,838	214,217	1,553,318	3,721,734	1,205	44,660	323,166	2,985,616
44	Ground water.....acre-feet...	5,718	198,990	1,513,288	3,696,754	625	19,137	286,945	2,540,444
45	From other conveyances in the basin.....organizations...	1	3	9	1	5	5	5	7
46	Total leaving conveyance systems.....organizations...	11	55	50	17	8	20	21	11
47	Conveyance loss in basin.....organizations...	5,838	237,398	1,601,459	4,003,672	1,893	100,684	761,162	3,969,169
48	Conveyed to another drainage basin.....organizations...	410	26,731	260,925	665,820	129	3,261	127,968	614,381
49	To drainage basin number.....D. B. No. ....	...	...	...	...	...	...	...	...
50	Delivered for use in the basin.....organizations...	5,428	210,627	1,241,465	2,032,071	1,764	97,423	633,194	2,148,037
51	To farm irrigation water users.....organizations...	...	...	...	...	...	...	...	...
52	To residential water users.....organizations...	...	19,310	58,674	24,733	...	650	1,772	...
53	For other use.....organizations...	...	...	...	...	...	...	...	...
54	Delivered to other irrigation organizations.....organizations...	...	3,749	17,434	34,441	...	...	1,880	56,580
55	AVERAGE DELIVERY OF IRRIGATION WATER PER ACRE, 1959	...	...	...	...	...	...	...	...
56	Per acre irrigated, as reported by irrigation organization: All organizations.....acre-feet...	3.0	3.2	3.4	5.1	2.8	2.8	3.2	3.1
57	Organizations reporting no water from other sources used on land served by the organization.....organizations...	11	47	42	14	4	10	13	9
58	Acres irrigated.....acre-feet...	3.0	3.2	3.5	4.8	3.6	2.8	2.9	2.9

State Table 5.—NUMBER OF IRRIGATION ORGANIZATIONS, TYPE OF SERVICE, NEW CAPITAL INVESTMENT, AND WATER CONVEYED, BY SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUS OF 1959—Continued

Item (For definitions and explanations, see text)		San Joaquin Valley above San Joaquin River (II-F)				Santa Maria River and Basins south (II-G)			
		Size of organization, by total water conveyed							
		0-999 acre-feet	1,000- 9,999 acre-feet	10,000- 99,999 acre-feet	100,000 or more acre-feet	0-999 acre-feet	1,000- 9,999 acre-feet	10,000- 99,999 acre-feet	100,000 or more acre-feet
1	Number of organizations.....organizations...	60	63	30	13	475	122	29	3
TYPE OF SERVICE									
2	All water directly from surface and ground sources.....organizations...	54	54	12	8	436	66	7	1
3	Total water conveyed.....acre-feet...	17,352	191,924	355,218	1,923,066	113,838	199,870	148,514	276,708
4	Water delivered.....acre-feet...	16,132	164,767	281,223	1,509,752	111,214	160,991	87,698	276,674
5	To farm and residential users only.....organizations...	53	53	9	2	429	65	4	...
6	To farm and residential users only.....acre-feet...	15,242	154,974	205,423	198,793	106,689	120,196	57,244	...
7	To farm and residential users and other irrigation organizations.....organizations...	1	3	2	5	6	8	3	...
8	Water to farm and residential users.....acre-feet...	880	5,483	41,881	335,938	3,471	18,016	14,796	...
9	Water to other irrigation organizations.....acre-feet...	10	4,310	8,658	207,278	1,054	6,901	15,658	...
10	To other irrigation organizations only.....organizations...	...	...	1	1	...	...	...	1
11	To other irrigation organizations only.....acre-feet...	...	...	25,263	767,743	...	15,478	...	276,674
12	Part of water from other organizations.....organizations...	3	4	8	3	20	29	20	1
13	Total water conveyed.....acre-feet...	1,648	15,339	308,025	437,801	8,684	113,224	497,482	480,557
14	From surface and ground water sources.....acre-feet...	1,178	5,381	141,931	124,395	5,404	70,001	274,746	282,568
15	From other irrigation organizations.....acre-feet...	470	9,958	166,094	313,406	3,280	43,223	222,736	197,989
16	Water delivered.....acre-feet...	1,648	14,545	271,009	289,130	8,343	100,566	433,327	446,917
17	To farm and residential users only.....organizations...	3	4	4	2	17	22	8	...
18	To farm and residential users only.....acre-feet...	1,648	14,545	271,009	167,964	6,987	74,505	148,158	...
19	To farm and residential users and other irrigation organizations.....organizations...	...	...	...	1	3	7	11	1
20	Water to farm and residential users.....acre-feet...	...	...	...	120,256	957	19,541	192,543	446,917
21	Water to other irrigation organizations.....acre-feet...	...	...	...	910	399	6,520	82,922	...
22	To other irrigation organizations only.....organizations...	...	...	...	...	...	...	...	...
23	To other irrigation organizations only.....acre-feet...	...	...	...	...	...	...	9,704	...
24	All of water from other organizations.....organizations...	2	5	10	2	18	27	2	1
25	Total water conveyed.....acre-feet...	1,450	33,713	239,106	249,975	7,383	83,417	28,108	116,805
26	Water delivered.....acre-feet...	1,450	27,951	205,076	249,975	7,025	79,590	28,108	115,360
27	To farm and residential users only.....organizations...	2	5	10	2	16	16	...	...
28	To farm and residential users only.....acre-feet...	1,450	27,951	205,076	249,975	6,490	36,971	...	...
29	To farm and residential users and other irrigation organizations.....organizations...	...	...	...	...	2	7	...	...
30	Water to farm and residential users.....acre-feet...	...	...	...	...	473	19,618	...	...
31	Water to other irrigation organizations.....acre-feet...	...	...	...	...	62	11,831	...	...
32	To other irrigation organizations only.....organizations...	...	...	...	...	...	2	...	...
33	To other irrigation organizations only.....acre-feet...	...	...	...	...	...	11,170	28,108	115,360
34	No water conveyed.....organizations...	1	...	...	...	1	...	...	...
WATER FROM OTHER SOURCES									
35	Organizations reporting no water from other sources used on land served by the organization.....organizations...	48	31	11	3	415	93	19	1
36	On land served by the organization.....acre served...	5,266	25,588	337,277	291,482	73,463	180,274	113,810	43,133
37	On land served by the organization.....acres irrigated...	4,999	25,091	313,496	279,058	41,762	93,415	74,730	43,133
38	Organizations reporting water from other sources used on land served by the organization.....organizations...	11	32	18	9	58	22	7	...
39	On land served by the organization.....acre irrigated...	7,154	219,984	365,799	441,089	10,338	64,488	265,723	...
40	On land served by the organization.....acre irrigated...	4,044	112,921	297,304	427,484	8,356	20,902	53,608	...
NEW CAPITAL INVESTMENT, 1950-1959									
41	Expenditures for additional new works and equipment for irrigation and drainage, January 1, 1950-December 31, 1959.....organizations...	26	36	21	11	160	68	17	...
42	Expenditures for additional new works and equipment for irrigation and drainage, January 1, 1950-December 31, 1959.....dollars...	144,924	625,699	25,440,731	76,944,056	15,547,261	100,307,166	15,530,630	...
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959									
43	Total entering conveyance systems in basin.....organizations...	59	63	30	13	474	122	29	3
44	From another drainage basin.....acre-feet...	18,530	197,305	497,149	2,047,461	119,242	269,871	423,260	680,376
45	From another drainage basin.....organizations...	...	...	...	2	...	...	...	...
46	From another drainage basin.....acre-feet...	...	...	...	861,551	...	...	...	579,459
47	From Drainage Basin number.....D. B. No.....	...	...	...	...	...	...	...	...
48	From natural sources within basin.....organizations...	57	58	20	10	456	95	26	1
49	From natural sources within basin.....acre-feet...	18,530	197,305	497,149	1,185,910	119,242	269,871	423,260	100,917
50	Surface water.....organizations...	23	48	15	10	24	27	17	...
51	Surface water.....acre-feet...	10,117	177,416	359,246	1,112,888	6,767	62,073	154,834	...
52	Ground water.....organizations...	36	13	8	3	440	89	23	...
53	Ground water.....acre-feet...	8,413	19,889	137,903	73,022	112,475	207,798	268,426	100,917
54	From other organizations in the basin.....organizations receiving...	5	9	18	5	38	56	22	2
55	From other organizations in the basin.....acre-feet...	1,920	43,671	405,200	563,381	10,663	126,640	250,844	193,694
56	Total leaving conveyance systems.....organizations...	59	63	30	13	474	122	29	3
57	Conveyance loss in basin.....acre-feet...	20,440	236,666	868,428	1,634,911	128,390	344,611	537,712	482,036
58	Conveyance loss in basin.....organizations...	22	52	23	10	64	26	11	...
59	Conveyance loss in basin.....acre-feet...	1,220	33,713	144,661	312,559	1,649	20,202	34,522	35,119
60	Conveyed to another drainage basin.....organizations...	...	...	...	1	...	...	...	...
61	Conveyed to another drainage basin.....acre-feet...	...	...	...	142,080	...	...	...	...
62	Conveyed to another drainage basin.....D. B. No.....	...	...	...	...	...	...	...	...
63	Delivered for use in the basin.....organizations...	59	62	30	13	474	117	27	1
64	Delivered for use in the basin.....acre-feet...	19,220	202,953	723,767	1,180,272	126,741	324,409	503,190	446,917
65	To farm irrigation water users.....organizations...	59	62	30	12	473	115	26	...
66	To farm irrigation water users.....acre-feet...	19,051	202,362	720,618	1,072,926	116,910	322,717	500,449	28,745
67	To residential water users.....organizations...	6	3	4	...	...	95	13	1
68	To residential water users.....acre-feet...	169	991	2,771	...	8,157	66,130	139,757	418,172
69	For other use.....organizations...	...	...	1	4	14	24	14	...
70	For other use.....acre-feet...	...	...	378	107,346	1,674	35,562	90,449	...
71	Delivered to other irrigation organizations.....organizations delivering...	1	3	3	7	11	29	17	2
72	Delivered to other irrigation organizations.....acre-feet...	10	4,310	33,921	975,931	1,515	51,900	136,392	392,034
AVERAGE DELIVERY OF IRRIGATION WATER PER ACRE, 1959									
73	Per acre irrigated, as reported by irrigation organization: All organizations.....acre-feet...	2.1	1.5	1.2	1.7	2.3	1.9	2.8	2.0
74	Organizations reporting no water from other sources used on land served by the organization.....organizations...	48	31	11	3	415	93	19	1
75	Organizations reporting no water from other sources used on land served by the organization.....acre-feet...	2.8	3.4	1.0	1.3	2.4	1.9	2.3	2.8

COLORADO

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IRRIGATION OF AGRICULTURAL LANDS

State Table 1.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS.

Item (For definitions and explanations, see text)	The State	Gulf of California, total	Colorado River above Lees Ferry excluding Greas and Gunnison Rivers (IV-D)						
			Total	Colorado River direct				San Juan River	
				Total	Below Cemo	Cemo to Dotsero	Above Dotsero	Total	San Juan River direct
1 Total acres irrigated in Census year.....1959.....	2,684,757	739,000	405,000	145,000	70,000	41,000	34,000	122,000	20,000
2 1949.....	2,943,895	806,168	448,169	156,331	70,540	48,798	37,013	148,502	20,088
3 Irrigation organizations.....organizations 1959.....	1,933	934	451	105	11	69	25	140	29
4 1949.....	2,302	1,042	470	109	10	79	20	149	32
Service area, 1959:									
5 Farm area reported served by organizations.....acres 1959.....	3,040,053	783,487	434,848	156,843	87,255	47,798	21,790	165,341	23,343
6 Farm area reported irrigated by organizations.....acres 1959.....	2,669,677	691,255	383,090	152,971	85,412	46,339	21,220	139,045	16,865
7 Water users served, total.....water users 1959.....	43,642	15,671	10,121	6,743	5,906	765	72	2,155	125
8 Farm irrigation water users.....water users 1959.....	35,051	12,156	7,040	3,771	2,946	753	72	2,103	125
9 Residential water users.....water users 1959.....	8,449	3,495	3,071	2,966	2,960	6	...	49	...
10 Other water users.....water users 1959.....	142	20	10	6	...	6	...	3	...
LAND IRRIGATED BY SOURCE OF WATER, 1959									
11 Ground water sources.....acres.....	500,174	7,000	3,000	1,000	...	1,000	...	...	...
12 Surface water sources.....acres.....	2,184,583	732,000	402,000	144,000	70,000	40,000	34,000	122,000	20,000
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959									
13 Total entering conveyance systems in basin.....organizations.....	1,906	921	446	105	11	69	25	138	29
14 acre-feet.....	7,705,684	3,510,202	2,050,233	1,167,987	569,307	190,886	407,794	407,208	68,675
15 From another drainage basin.....organizations.....	1	1	...	...	...	...	...	1	1
16 acre-feet.....	4,038	4,038	...	...	...	...	...	9,000	3,037
17 From drainage basin number.....D. B. No.....	...	...	...	...	...	...	...	...	IV-D-2f
18 From natural sources within basin.....organizations.....	1,701	899	433	100	6	69	25	133	27
19 acre-feet.....	7,701,646	3,506,164	2,050,233	1,167,987	569,307	190,886	407,794	398,208	65,638
20 Surface water.....organizations.....	1,692	897	433	100	6	69	25	133	27
21 acre-feet.....	7,670,472	3,505,583	2,049,816	1,167,987	569,307	190,886	407,794	398,208	65,638
22 Ground water.....organizations.....	24	4	2	...	...	...	...	...	...
23 acre-feet.....	31,174	581	417	...	...	...	...	...	...
24 From other organizations in the basin.....organizations receiving.....	295	61	41	7	7	...	...	8	1
25 acre-feet.....	1,432,394	214,392	174,000	142,287	142,287	...	...	27,716	3,037
26 Total leaving conveyance systems.....organizations.....	1,906	921	446	105	11	69	25	138	29
27 acre-feet.....	7,705,684	3,510,202	2,050,233	1,167,987	569,307	190,886	407,794	407,208	68,675
28 Conveyance loss in basin.....organizations.....	1,767	874	419	100	11	67	22	126	26
29 acre-feet.....	1,433,931	572,093	334,104	218,839	172,146	25,489	21,204	58,769	12,690
30 Conveyed to another drainage basin.....organizations.....	4	6	7	2	...	...	2	2	...
31 acre-feet.....	15,427	334,612	335,904	287,181	...	...	287,181	1,903	...
32 To drainage basin number.....D. B. No.....	...	...	...	...	...	...	(1)	...	...
33 Delivered for use in the basin.....organizations.....	1,893	912	438	103	11	69	23	137	28
34 acre-feet.....	6,256,326	2,603,497	1,380,225	661,967	397,161	165,397	99,409	346,536	55,985
35 To farm irrigation water users.....organizations.....	1,888	912	438	103	11	69	23	137	28
36 acre-feet.....	5,943,099	2,457,456	1,241,904	538,955	274,470	165,076	99,409	344,087	55,985
37 To residential water users.....organizations.....	130	39	29	7	5	2	...	8	...
38 acre-feet.....	167,474	138,200	134,582	122,746	122,691	55	...	176	...
39 For other use.....organizations.....	50	11	6	1	...	1	...	4	...
40 acre-feet.....	145,753	7,841	3,739	266	...	266	...	2,273	...
41 Delivered to other irrigation organizations.....organizations delivering.....	118	20	10	3	3	...	...	4	1
42 acre-feet.....	1,432,394	214,392	174,000	142,287	142,287	...	...	27,716	3,037
43 Average delivery of irrigation water per acre irrigated as reported by organizations.....acre-feet.....	2.2	3.6	3.2	3.5	3.2	3.6	4.7	2.5	3.3
NEW CAPITAL INVESTMENT, 1950-1959									
44 Expenditures for additional new works and equipment for irrigation and drainage, Jan. 1, 1950-Dec. 31, 1959.....organizations.....	903	545	245	53	9	30	14	63	10
45 dollars.....	59,837,605	22,442,145	21,393,082	18,935,998	2,247,336	57,498	16,631,164	1,361,605	121,076

¹18,601 acre-feet to D. B. No. VI-E-6, 268,580 acre-feet to D. B. No. VI-E-7.

²3,037 acre-feet to D. B. No. IV-D-2a, 242 acre-feet to D. B. No. IV-D-2a, 1,661 acre-feet to D. B. No. IV-D-2f.

BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950

Colorado River excluding Green and Gunnison Rivers (IV-D)—Continued													
San Juan River—Continued					Dolores River			Plateau Creek	Roaring Fork	Eagle River	Blue River and Muddy Creek	Frazer River	
McElmo Creek	Mancos River	La Plata River	Animas River	Los Pinos River	Total	Dolores River direct	San Miguel River						
(2b)	(2c)	(2d)	(2e)	(2f)		(4a)	(4b)	(5)	(6)	(7)	(8, 9)	(10)	
31,000 37,840	13,000 12,853	4,000 16,919	18,000 21,057	36,000 40,145	29,000 36,145	10,000 10,580	19,000 25,565	25,000 29,123	38,000 31,369	14,000 15,415	22,000 21,090	10,000 10,172	1 2
13 10	29 29	19 23	27 30	24 28	23 32	10 16	13 16	82 84	64 60	24 30	5 1	8 8	3 4
42,003	14,909	15,195	26,587	43,304	35,880	8,580	27,300	28,419	30,777	7,153	3,685	6,750	5
41,808	9,712	8,285	22,752	39,623	23,200	3,390	19,810	22,079	30,707	7,153	2,685	5,250	6
739	184	99	390	618	335	28	307	401	344	85	10	48	7
738	174	99	363	604	334	28	306	353	337	84	10	48	8
...	9	...	27	13	...	...	...	48	7	1	...	...	9
1	1	...	...	1	1	...	1	...	...	...	...	...	10
...	...	...	...	...	1,000	1,000	...	...	1,000	...	...	...	11
31,000	13,000	4,000	18,000	36,000	28,000	9,000	19,000	25,000	37,000	14,000	22,000	10,000	12
14 102,201	28 27,113	19 10,301	27 74,648	22 136,307	23 88,493	10 13,441	13 75,052	80 71,278	64 238,279	24 41,588	5 20,490	8 23,910	13 14
1 9,000	1 9,000	...	...	...	...	...	...	...	...	...	...	...	15 16
IV-D-2c	IV-D-4a	...	...	...	...	...	...	...	...	...	...	...	17
13 93,201	28 18,113	19 10,301	27 74,648	19 136,307	23 88,493	10 13,441	13 75,052	76 71,278	64 238,279	24 41,588	5 20,490	8 23,910	18 19
13 93,201	28 18,113	19 10,301	27 74,648	19 136,307	23 88,493	10 13,441	13 75,052	76 71,191	64 237,949	24 41,588	5 20,490	8 23,910	20 21
...	...	...	...	...	...	...	...	1	1	...	...	...	22
...	...	...	...	...	...	...	...	87	330	...	...	...	23
...	1	2	...	4	...	...	...	26	...	...	...	...	24
...	270	898	...	23,511	...	...	...	3,997	...	...	...	...	25
14 102,201	28 27,113	19 10,301	27 74,648	22 136,307	23 88,493	10 13,441	13 75,052	80 71,278	64 238,279	24 41,588	5 20,490	8 23,910	26 27
12 8,716	27 1,659	18 1,543	27 12,062	16 22,099	22 12,200	9 429	13 11,771	74 8,912	60 26,037	24 3,379	5 3,421	8 2,547	28 29
...	1	...	...	3	1	1	...	1	2	...	...	...	30
...	9,000	...	...	4,940	9,000	9,000	...	1,292	45,528	...	...	...	31
...	IV-D-2b	...	...	(?)	...	IV-D-2c	...	IV-F-1	VI-B-1c	...	...	...	32
14 93,485	28 16,454	18 8,758	27 62,586	22 109,268	22 67,293	9 4,012	13 63,281	77 61,074	62 166,714	24 38,209	5 17,069	8 21,363	33 34
14 91,952	28 15,914	18 8,758	27 62,510	22 108,968	22 66,093	9 4,012	13 62,081	77 56,931	62 159,220	24 38,186	5 17,069	8 21,363	35 36
...	4	...	2	2	...	...	...	11	2	1	...	...	37
...	40	...	76	60	...	...	...	4,143	7,434	23	...	...	38
2 1,533	1 500	...	...	1 240	1 1,200	...	1 1,200	...	...	...	...	...	39 40
...	1	1	...	2	...	...	...	3	...	...	...	...	41
...	270	898	...	23,511	...	...	...	3,997	...	...	...	...	42
2.2	1.6	1.1	2.7	2.8	2.8	1.2	3.1	2.6	5.2	5.3	6.4	4.1	43
9 735,192	15 22,510	...	12 52,050	18 430,777	17 262,573	7 20,000	10 242,573	52 84,026	34 652,579	20 65,501	3 26,800	3 4,000	44 45

IRRIGATION OF AGRICULTURAL LANDS

State Table 1.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS.

Item (For definitions and explanations, see text)	Green River (IV-E)					
	Total	Green River direct	White River	Yampa River		
				Total	Yampa River direct	Elk and Little Snake Rivers
		(1)	(4)		(8a)	(8b, c)
1 Total acres irrigated in Census year.....1959...	86,000	1,000	27,000	58,000	45,000	13,000
2 1949.....	88,602	691	29,911	58,000	45,172	12,828
3 Irrigation organizations.....organizations 1959...	125	...	27	98	81	17
4 1949.....	129	...	30	99	76	23
5 Service area, 1959:						
6 Farm area reported served by organizations.....acres 1959...	74,370	...	19,716	54,654	48,695	5,959
7 Farm area reported irrigated by organizations.....acres 1959...	71,264	...	19,450	51,814	45,855	5,959
8 Water users served, total.....water users 1959...	503	...	129	374	321	53
9 Farm irrigation water users.....water users 1959...	503	...	129	374	321	53
10 Residential water users.....water users 1959...	...	...	...	...	...	...
11 Other water users.....water users 1959...	...	...	...	...	...	...
12 LAND IRRIGATED BY SOURCE OF WATER, 1959						
13 Ground water sources.....acres...	2,000	...	1,000	1,000	1,000	...
14 Surface water sources.....acres...	84,000	1,000	26,000	57,000	44,000	13,000
15 WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959						
16 Total entering conveyance systems in basin.....organizations...	124	...	27	97	80	17
17 acre-feet.....	313,959	...	98,479	215,480	184,068	31,412
18 From another drainage basin.....organizations...	1	...	...	1	...	1
19 acre-feet.....	4,038	...	...	4,038	...	4,038
20 From drainage basin number.....D. B. No.....	...	...	...	...	...	IV-E-8b
21 From natural sources within basin.....organizations...	123	...	27	96	80	16
22 acre-feet.....	309,921	...	98,479	211,442	184,068	27,374
23 Surface water.....organizations...	123	...	27	96	80	16
24 acre-feet.....	309,921	...	98,479	211,442	184,068	27,374
25 Ground water.....organizations...	...	...	...	...	...	...
26 acre-feet.....	...	...	...	...	...	...
27 From other organizations in the basin.....organizations receiving...	...	...	...	...	...	...
28 acre-feet.....	...	...	...	...	...	...
29 Total leaving conveyance systems.....organizations...	124	...	27	97	80	17
30 acre-feet.....	313,959	...	98,479	215,480	184,068	31,412
31 Conveyance loss in basin.....organizations...	122	...	27	95	79	16
32 acre-feet.....	43,453	...	11,579	31,874	26,939	4,935
33 Conveyed to another drainage basin.....organizations...	...	...	...	...	...	...
34 acre-feet.....	...	...	...	...	...	...
35 To drainage basin number.....D. B. No.....	...	...	...	...	...	...
36 Delivered for use in the basin.....organizations...	124	...	27	97	80	17
37 acre-feet.....	270,506	...	86,900	183,606	157,129	26,477
38 To farm irrigation water users.....organizations...	124	...	27	97	80	17
39 acre-feet.....	270,506	...	86,900	183,606	157,129	26,477
40 To residential water users.....organizations...	...	...	...	...	...	...
41 acre-feet.....	...	...	...	...	...	...
42 For other use.....organizations...	...	...	...	...	...	...
43 acre-feet.....	...	...	...	...	...	...
44 Delivered to other irrigation organizations.....organizations delivering...	...	...	...	...	...	...
45 acre-feet.....	...	...	...	...	...	...
46 Average delivery of irrigation water per acre irrigated as reported by organizations.....acre-feet...	3.8	...	4.5	3.5	3.4	4.4
47 NEW CAPITAL INVESTMENT, 1950-1959						
48 Expenditures for additional new works and equipment for irrigation and drainage, Jan. 1, 1950-Dec. 31, 1959.....organizations...	105	...	24	81	68	13
49 dollars.....	331,245	...	77,440	253,805	235,178	18,627

¹1,292 acre-feet from D. B. No. IV-D-5, 256 acre-feet from D. B. No. IV-F-3. ²6,790 acre-feet from D. B. No. V-C-11, 26,990 acre-feet from D. B. No. V-C-1c. ³5,148 acre-feet to D. B. No. IV-F-4, 333,436 acre-feet to D. B. No. IV-F-2. ⁴833 acre-feet to D. B. No. V-C-1c, 6,790 acre-feet to D. B. No. V-C-13.

BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950-Continued

Gunnison River (IV-F)							Rio Grande above Fort Quitman, Texas (V-G)						
Total	Gunnison River direct	Uncompahgre River	North Fork	Smith Fork	Tonichi Creek	Slate River	Total	Rio Grande direct	Costilla and Trinchera Creek	San Antonio and Conejos Rivers	LaJara and Alamosa Creeks	San Luis Lake and San Luis Creek Direct	
	(1)	(2)	(3)	(4)	(5)	(6)		(1)	(10, 12)	(11)	(13)	(14)	
248,000	69,000	111,000	21,000	16,000	27,000	4,000	419,000	176,000	31,000	55,000	106,000	51,000	1
269,397	88,678	103,735	25,501	18,408	27,396	5,679	592,645	253,212	41,421	75,072	136,521	86,419	2
359	182	74	53	17	27	12	203	64	31	68	43	3	3
445	234	76	77	20	32	10	304	99	39	97	71	8	4
274,269	84,267	111,344	42,860	22,583	10,062	3,153	573,350	268,393	52,575	96,114	155,088	1,180	5
236,901	63,356	98,439	39,684	22,307	9,962	3,153	419,622	217,916	30,947	84,605	84,974	1,180	6
5,047	1,473	2,204	1,073	194	77	26	3,425	1,222	425	1,033	723	22	7
4,613	1,448	1,904	965	193	77	26	3,278	1,222	425	892	717	22	8
424	23	300	101	...	...	...	147	...	...	141	6	...	9
10	2	...	7	1	...	...	...	...	...	...	...	...	10
2,000	1,000	...	...	...	1,000	...	172,000	92,000	8,000	6,000	42,000	24,000	11
246,000	68,000	111,000	21,000	16,000	26,000	4,000	247,000	84,000	23,000	49,000	64,000	27,000	12
352	176	74	52	17	27	12	200	62	31	67	43	3	13
1,147,302	616,011	597,609	155,025	50,559	68,585	27,513	693,042	356,575	71,823	187,333	109,854	2,070	14
1	2	3	1	1	...	...	...	1	...	...	5	...	15
1,292	1,548	333,436	29,160	5,148	...	...	...	833	...	...	33,780	...	16
...	(1)	IV-F-1	IV-F-2	IV-F-1	...	...	...	V-0-11	...	...	(2)	...	17
343	173	68	48	16	27	12	188	53	28	66	39	3	18
1,146,010	614,463	264,173	125,865	45,411	68,585	27,513	693,042	355,742	71,823	187,333	76,074	2,070	19
341	171	68	48	16	27	12	184	53	28	66	34	3	20
1,145,846	614,279	264,173	125,865	45,411	68,585	27,513	677,934	355,742	71,823	177,739	70,920	2,070	21
2	...	...	...	...	...	...	9	...	...	2	7	...	22
164	164	...	...	...	...	...	15,108	...	...	9,954	5,154	...	23
20	11	4	5	...	...	...	17	9	4	4	...	...	24
40,392	15,660	19,631	5,101	...	...	...	56,176	23,124	6,352	26,700	...	...	25
352	176	74	52	17	27	12	200	62	31	67	43	3	26
1,147,302	616,011	597,609	155,025	50,559	68,585	27,513	693,042	356,575	71,823	187,333	109,854	2,070	27
334	165	72	48	15	27	11	185	56	30	60	40	3	28
194,536	46,170	104,495	23,859	3,741	12,886	3,385	137,299	76,245	24,406	16,644	19,726	278	29
...	4	1	1	...	...	...	...	3	...	3	...	...	30
...	338,584	29,160	256	...	...	...	...	26,990	...	7,623	...	...	31
...	(2)	IV-F-3	IV-F-1	...	...	...	...	V-0-13	...	(4)	...	...	32
351	173	74	51	17	27	12	199	61	31	65	43	3	33
952,766	231,297	463,954	130,910	46,818	55,699	24,128	555,743	253,340	47,417	163,066	90,128	1,792	34
351	173	74	51	17	27	12	199	61	31	65	43	3	35
945,046	230,003	461,054	130,224	43,938	55,699	24,128	554,093	253,340	47,417	161,566	89,978	1,792	36
10	7	1	2	...	...	...	2	...	...	1	1	...	37
3,618	414	2,900	304	...	...	...	1,650	...	...	1,500	150	...	38
5	1	...	3	1	...	...	...	...	...	...	...	...	39
4,102	840	...	382	2,880	...	...	...	...	...	...	...	...	40
10	4	3	4	...	...	...	12	2	3	7	...	...	41
40,392	15,660	19,631	5,101	...	...	...	56,176	23,124	6,352	26,700	...	...	42
4.0	3.6	4.7	3.3	2.0	5.6	7.7	1.3	1.2	0.9	1.9	1.1	1.5	43
195	99	66	17	7	8	2	104	28	6	43	28	...	44
717,818	203,872	375,406	88,775	38,915	10,350	500	2,996,833	343,735	170,400	2,438,820	43,878	...	45

IRRIGATION OF AGRICULTURAL LANDS

State Table 1.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS,

Item (For definitions and explanations, see text)	Mississippi River total	Arkansas River (VI-B)				
		Total	Arkansas River direct			
			Total	Below John Martin Dam		Above Pueblo
				(1a)	(1b)	
				(1a)	(1b)	(1c)
1 Total acres irrigated in Census year.....1959...	1,527,000	445,000	340,000	130,000	170,000	40,000
2 1949...	1,545,082	461,146	352,450	122,144	181,147	49,159
3 Irrigation organizations.....organizations 1959...	800	319	172	32	93	92
4 1949...	959	427	240	38	96	109
5 Service area, 1959:						
6 Farm area reported served by organizations.....acres 1959...	1,683,216	475,714	394,239	155,660	192,320	46,259
7 Farm area reported irrigated by organizations.....acres 1959...	1,558,800	431,485	376,353	152,959	186,825	36,569
8 Water users served, total.....water users 1959...	24,546	8,179	7,034	1,135	2,779	3,120
9 Farm irrigation water users.....water users 1959...	19,617	6,905	5,783	1,135	2,645	2,003
10 Residential water users.....water users 1959...	4,807	1,205	1,184	...	69	1,115
Other water users.....water users 1959...	122	69	67	...	65	2
LAND IRRIGATED BY SOURCE OF WATER, 1959						
11 Ground water sources.....acres...	321,000	69,000	41,000	16,000	24,000	1,000
12 Surface water sources.....acres...	1,206,000	376,000	299,000	114,000	146,000	39,000
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959						
13 Total entering conveyance systems in basin.....organizations...	792	317	170	32	52	91
14 acre-feet...	3,835,149	1,313,345	1,190,823	409,473	760,784	330,568
15 From another drainage basin.....organizations...	4	2	5	1	4	3
16 acre-feet...	332,709	45,528	71,219	181,290	145,403	54,528
17 From drainage basin number.....D. B. No. ....	...	...	...	VI-B-1b	(1)	(2)
18 From natural sources within basin.....organizations...	619	273	131	11	34	89
19 acre-feet...	3,502,440	1,267,817	1,119,604	228,183	615,381	276,040
20 Surface water.....organizations...	616	271	129	11	33	88
21 acre-feet...	3,486,955	1,264,822	1,116,609	228,183	612,791	275,635
22 Ground water.....organizations...	11	5	5	...	3	2
23 acre-feet...	15,485	2,995	2,995	...	2,590	405
24 From other organizations in the basin.....organizations receiving...	217	46	39	21	37	1
25 acre-feet...	1,161,826	205,667	184,613	134,610	47,753	2,250
26 Total leaving conveyance systems.....organizations...	792	317	170	32	52	91
27 acre-feet...	3,835,149	1,313,345	1,190,823	409,473	760,784	330,568
28 Conveyance loss in basin.....organizations...	708	293	162	31	50	84
29 acre-feet...	724,539	203,088	179,977	63,841	83,554	32,582
30 Conveyed to another drainage basin.....organizations...	2	...	2	...	3	2
31 acre-feet...	13,524	...	18,430	...	199,720	128,712
32 To drainage basin number.....D. B. No. ....	...	...	...	...	(3)	VI-B-1b
33 Delivered for use in the basin.....organizations...	782	317	170	32	52	88
34 acre-feet...	3,097,086	1,110,257	992,416	345,632	477,510	169,274
35 To farm irrigation water users.....organizations...	777	317	170	32	52	87
36 acre-feet...	2,931,550	1,029,362	913,058	345,632	404,069	163,397
37 To residential water users.....organizations...	89	14	10	...	2	8
38 acre-feet...	27,624	4,169	4,016	...	232	3,784
39 For other use.....organizations...	39	8	7	...	6	2
40 acre-feet...	137,912	76,726	75,342	...	73,209	2,133
41 Delivered to other irrigation organizations.....organizations delivering...	86	14	9	5	3	1
42 acre-feet...	1,161,826	205,667	184,613	134,610	47,753	2,250
43 Average delivery of irrigation water per acre irrigated as reported by organizations.....acre-feet...	1.9	2.4	2.4	2.3	2.2	4.5
NEW CAPITAL INVESTMENT, 1950-1959						
44 Expenditures for additional new works and equipment for irrigation and drainage, Jan. 1, 1950-Dec. 31, 1959.....organizations...	258	121	67	5	24	41
45 dollars...	34,398,627	2,304,051	2,128,013	27,522	1,463,526	636,965

¹7,352 acre-feet from D. B. No. VI-B-6, 128,712 acre-feet from D. B. No. VI-B-1c, 9,339 acre-feet from D. B. No. VI-B-8. ²45,528 acre-feet from D. B. No. IV-D-6, 9,000 acre-feet from D. B. No. VI-B-10. ³181,290 acre-feet to D. B. No. VI-B-1a, 10,330 acre-feet to D. B. No. VI-B-6, 8,100 acre-feet to D. B. No. VI-B-8.

BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Continued

Arkansas River (VI-B)—Continued									Missouri River, total	Platte River excluding South Platte River (VI-D)			
Cisarron River	Purgatorie River	Huertano River		St. Charles River	Fountain Creek	Grape Creek	Missouri River, Republica River (VI-C)	Total		North Platte River, above Alcova Dam	Larmie River		
		Total	Huertano River direct									Cucharas River	
(3)	(6)		(7a)	(7b)	(8)	(9)	(10)			(3d)	(5a)		
21,000 264	24,000 32,565	24,000 27,723	16,000 19,731	8,000 7,992	4,000 5,775	12,000 16,666	20,000 25,703	1,082,000 1,083,936	35,000 6,517	134,000 147,713	130,000 141,953	4,000 5,760	
...	44	65	37	28	19	6	18	481	4	71	68	3	
...	45	96	62	35	18	8	24	532	2	81	78	3 4	
...	43,402	21,614	15,469	6,145	4,914	7,380	4,165	1,207,502	3,393	65,265	65,265	...	
...	20,175	19,528	14,673	4,855	4,639	6,865	3,925	1,127,315	3,393	64,865	64,865	...	
...	400	294	192	102	304	103	44	16,367	23	169	169	...	
...	379	292	192	100	304	103	44	12,712	23	169	169	...	
...	21	...	...	...	...	...	...	3,602	...	...	...	...
...	...	2	...	2	...	...	...	53	...	...	...	...
21,000	...	2,000	2,000	...	...	4,000	1,000	252,000	32,000	1,000	1,000	...
...	24,000	22,000	14,000	8,000	4,000	8,000	19,000	830,000	3,000	133,000	129,000	4,000	
...	44	65	37	28	19	6	18	475	3	71	68	3	
...	70,443	37,770	23,613	14,157	23,721	18,033	16,676	2,521,804	21,080	356,632	334,668	21,964	
...	1	...	...	...	1	...	...	2	...	...	...	...
...	10,330	...	...	...	8,100	...	...	287,181	...	...	...	...
...	VI-B-1b	...	...	...	VI-B-1b	...	...	...	...	...	...	...
...	36	65	37	28	18	6	18	346	3	71	68	3	
...	60,113	37,770	23,613	14,157	15,621	18,033	16,676	2,234,623	21,080	356,632	334,668	21,964	
...	36	65	37	28	18	6	18	345	3	71	68	3	
...	60,113	37,770	23,613	14,157	15,621	18,033	16,676	2,222,133	21,080	356,632	334,668	21,964	
...	...	...	...	...	...	...	...	6	...	...	...	...
...	...	...	...	...	...	...	...	12,490	...	...	...	...
...	7	...	...	...	...	...	...	171	...	...	...	...
...	21,054	...	...	...	...	...	...	956,159	...	...	...	...
...	44	65	37	28	19	6	18	475	3	71	68	3	
...	70,443	37,770	23,613	14,157	23,721	18,033	16,676	2,521,804	21,080	356,632	334,668	21,964	
...	42	54	31	23	18	6	15	415	3	66	66	...	
...	8,687	4,221	2,669	1,552	3,303	4,397	2,503	521,451	2,520	54,649	54,649	...	
...	1	...	...	...	1	...	1	2	1	3	...	3
...	7,352	...	...	...	9,339	...	9,000	13,524	10,032	21,964	...	21,964
...	VI-B-1b	...	...	...	VI-B-1b	...	VI-B-1c	...	...	...	...	VI-E-6
...	44	65	37	28	19	6	17	465	3	68	68	...	
...	54,404	33,549	20,944	12,605	11,079	13,636	5,173	1,986,829	8,528	280,019	280,019	...	
...	44	65	37	28	19	6	17	460	3	68	68	...	
...	54,251	32,165	20,944	11,221	11,079	13,636	5,173	1,902,188	8,528	280,019	280,019	...	
...	4	...	...	...	...	...	...	75	...	...	...	...
...	153	...	...	...	...	...	...	23,455	...	...	...	...
...	...	1	...	1	...	...	...	31	...	...	...	...
...	...	1,384	...	1,384	...	...	...	61,186	...	...	...	...
...	5	...	...	...	...	...	...	72	...	...	...	...
...	21,054	...	...	...	...	...	...	956,159	...	...	...	...
...	2.7	1.6	1.4	2.3	2.4	2.0	1.3	1.7	2.5	4.3	4.3	...	
...	26	24	11	13	2	1	3	137	2	35	33	2	
...	121,818	19,727	8,125	11,602	16,929	17,416	148	32,094,576	2,100	64,605	38,590	26,015	

IRRIGATION OF AGRICULTURAL LANDS

State Table 1.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY DRAINAGE BASINS:
CENSUSES OF 1959 AND 1950—Continued

Item (For definitions and explanations, see text)		South Platte River above Gaging Station near Paxton, Nebraska (VI-E)					
		Total	South Platte River direct				Upper Beaver Creek
			Total	Below Sublette	Sublette to South Platte	Above South Platte	
1	Total acres irrigated in Census year.....1959...	913,000	458,000	207,000	208,000	43,000	15,000
2	.....1949...	929,706	458,100	200,866	212,472	44,762	9,834
3	Irrigation organizations.....organizations 1959...	409	133	56	77	3	1
4	.....1949...	452	163	77	82	7	2
Service area, 1959:							
5	Farm area reported served by organizations.....acres 1959...	1,138,844	561,965	238,648	321,617	1,700	(D)
6	Farm area reported irrigated by organizations.....acres 1959...	1,059,057	523,039	229,454	291,885	1,700	(D)
7	Water users served, total.....water users 1959...	16,175	6,887	1,850	5,029	8	(D)
8	Farm irrigation water users.....water users 1959...	12,520	5,735	1,850	3,877	8	(D)
9	Residential water users.....water users 1959...	3,602	1,131	...	1,131	...	...
10	Other water users.....water users 1959...	53	21	...	21	...	...
LAND IRRIGATED BY SOURCE OF WATER, 1959							
11	Ground water sources.....acres...	219,000	151,000	83,000	68,000	...	10,000
12	Surface water sources.....acres...	694,000	307,000	124,000	140,000	43,000	5,000
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
13	Total entering conveyance systems in basin.....organizations... acre-feet...	404 2,166,056	131 1,112,885	55 500,710	76 735,463	3 3,420	1 (D)
14	From another drainage basin.....organizations... acre-feet...	5 309,145	12 172,735	3 126,708	12 172,735	...	1 (D)
15	From drainage basin number.....D. B. No....	...	...	VI-E-1b	(1)	...	VI-E-1a
16	From natural sources within basin.....organizations... acre-feet...	275 1,856,911	75 940,150	30 374,002	42 562,728	3 3,420	...
17	Surface water.....organizations... acre-feet...	274 1,844,421	75 929,510	30 367,002	42 559,088	3 3,420	...
18	Ground water.....organizations... acre-feet...	6 12,490	4 10,640	2 7,000	2 3,640	...	...
19	From other organizations in the basin.....organizations receiving... acre-feet...	171 956,159	56 249,093	24 83,885	32 165,208	...	...
20	Total leaving conveyance systems.....organizations... acre-feet...	404 2,166,056	131 1,112,885	55 500,710	76 735,463	3 3,420	1 (D)
21	Conveyance loss in basin.....organizations... acre-feet...	346 464,282	120 302,652	54 156,272	64 145,945	3 435	1 (D)
22	Conveyed to another drainage basin.....organizations... acre-feet...	1 3,492	3 9,490	2 8,510	4 127,688	...	...
23	To drainage basin number.....D. B. No....	...	...	(2)	(3)	...	...
24	Delivered for use in the basin.....organizations... acre-feet...	394 1,698,282	127 800,743	55 335,928	70 461,830	3 2,985	1 (D)
25	To farm irrigation water users.....organizations... acre-feet...	389 1,613,641	125 751,093	55 335,928	68 412,180	3 2,985	1 (D)
26	To residential water users.....organizations... acre-feet...	75 23,455	18 9,387	...	18 9,387	...	...
27	For other use.....organizations... acre-feet...	31 61,186	14 40,263	...	14 40,263	...	...
28	Delivered to other irrigation organizations.....organizations delivering... acre-feet...	72 956,159	32 249,093	7 83,885	25 165,208	...	...
29	Average delivery of irrigation water per acre irrigated as reported by organizations...acre-feet...	1.5	1.4	1.5	1.4	1.8	(D)
NEW CAPITAL INVESTMENT, 1950-1959							
30	Expenditures for additional new works and equipment for irrigation and drainage, Jan. 1, 1950-Dec. 31, 1959.....organizations... dollars...	101 32,027,871	41 811,452	14 130,448	27 681,004	...	...

D Data not shown to avoid disclosure of information for individual organizations. ¹15,461 acre-feet from D. B. No. VI-E-8, 38,628 acre-feet from D. B. No. VI-E-9, 6,208 acre-feet from D. B. No. VI-E-10, 66,523 acre-feet from D. B. No. VI-E-6, 45,515 acre-feet from D. B. No. VI-E-7. ²5,018 acre-feet to D. B. No. VI-E-3, 3,492 acre-feet to D. B. No. VI-E-1a. ³980 acre-feet to D. B. No. VI-E-9, 126,708 acre-feet to D. B. No. VI-E-1a.

State Table 1.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY DRAINAGE BASINS:
CENSUSES OF 1959 AND 1950—Continued

Item (For definitions and explanations, see text)		South Platte River above Gaging Station near Paxton, Nebraska (VI-E)—Continued						
		Upper Bijou Creek	Crow Creek	Cache La Poudre River	Thompson River	St. Vrain and Boulder Creeks	Clear Creek	Bear Creek
		(4)	(5)	(6)	(7)	(8)	(9)	(10)
1	Total acres irrigated in Census year.....1959...	27,000	9,000	204,000	73,000	114,000	8,000	5,000
2	.....1949...	18,668	7,130	220,395	62,833	125,749	18,998	7,979
3	Irrigation organizations.....organizations 1959...	...	...	71	57	118	42	7
4	.....1949...	...	2	74	47	129	43	11
5	Service area, 1959:							
	Farm area reported served by organizations.....acres 1959...	...	...	234,480	109,257	198,610	25,972	(D)
6	Farm area reported irrigated by organizations.....acres 1959...	...	...	225,580	105,123	178,483	19,272	(D)
7	Water users served, total.....water users 1959...	...	...	2,357	1,178	2,955	2,652	(D)
8	Farm irrigation water users.....water users 1959...	...	...	2,196	1,131	2,444	883	(D)
9	Residential water users.....water users 1959...	...	...	159	46	495	1,758	(D)
10	Other water users.....water users 1959...	...	...	2	1	16	11	(D)
	LAND IRRIGATED BY SOURCE OF WATER, 1959							
11	Ground water sources.....acres...	23,000	3,000	28,000	2,000	2,000	...	...
12	Surface water sources.....acres...	4,000	6,000	176,000	71,000	112,000	8,000	5,000
	WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
13	Total entering conveyance systems in basin.....organizations...	...	...	70	56	118	42	6
14	.....acre-feet...	...	...	538,573	472,828	308,670	101,300	(D)
15	From another drainage basin.....organizations...	...	...	6	4	1	1	...
16	.....acre-feet...	...	...	192,087	284,101	46,569	980	...
17	From drainage basin number.....D. B. No....	...	...	(1)	(2)	VI-E-7	VI-E-1b	...
18	From natural sources within basin.....organizations...	...	...	44	32	102	19	6
19	.....acre-feet...	...	...	346,486	188,727	262,101	100,320	(D)
20	Surface water.....organizations...	...	...	43	32	102	19	6
21	.....acre-feet...	...	...	346,336	188,727	260,401	100,320	(D)
22	Ground water.....organizations...	...	...	1	...	1	...	...
23	.....acre-feet...	...	...	150	...	1,700	...	...
24	From other organizations in the basin.....organizations receiving...	...	...	34	26	31	24	...
25	.....acre-feet...	...	...	239,362	370,550	82,275	14,879	...
26	Total leaving conveyance systems.....organizations...	...	...	70	56	118	42	6
27	.....acre-feet...	...	...	538,573	472,828	308,670	101,300	(D)
28	Conveyance loss in basin.....organizations...	...	...	51	39	100	42	6
29	.....acre-feet...	...	...	93,105	28,267	25,593	10,724	(D)
30	Conveyed to another drainage basin.....organizations...	...	...	3	4	5	5	1
31	.....acre-feet...	...	...	66,923	243,606	30,982	38,628	(D)
32	To drainage basin number.....D. B. No....	...	...	VI-E-1b	(3)	(4)	VI-E-1b	VI-E-1b
33	Delivered for use in the basin.....organizations...	...	...	65	51	117	42	6
34	.....acre-feet...	...	...	378,545	200,955	252,095	51,948	(D)
35	To farm irrigation water users.....organizations...	...	...	65	50	116	41	6
36	.....acre-feet...	...	...	374,844	198,556	241,787	33,708	(D)
37	To residential water users.....organizations...	...	...	6	4	15	34	3
38	.....acre-feet...	...	...	503	721	1,952	10,875	(D)
39	For other use.....organizations...	...	...	2	1	10	5	2
40	.....acre-feet...	...	...	3,198	1,678	8,356	7,365	(D)
41	Delivered to other irrigation organizations.....organizations delivering...	...	...	13	15	14	6	...
42	.....acre-feet...	...	...	239,362	370,550	82,275	14,879	...
43	Average delivery of irrigation water per acre irrigated as reported by organizations.....acre-feet...	...	...	1.7	1.9	1.4	1.7	(D)
	NEW CAPITAL INVESTMENT, 1950-1959							
44	Expenditures for additional new works and equipment for irrigation and drainage, Jan. 1, 1950-Dec. 31, 1959.....organizations...	...	...	15	14	34	4	...
45	.....dollars...	...	...	1,067,419	27,988,187	2,076,598	84,215	...

D Data not shown to avoid disclosure of information for individual organizations. ¹21,964 acre-feet from D. B. No. VI-D-5a, 18,601 acre-feet from D. B. No. IV-D-1c, 151,522 acre-feet from D. B. No. VI-E-7. ²15,521 acre-feet from D. B. No. VI-E-8, 268,580 acre-feet from D. B. No. IV-D-1c. ³151,522 acre-feet to D. B. No. VI-E-6, 46,569 acre-feet to D. B. No. VI-E-8, 45,515 acre-feet to D. B. No. VI-E-1b. ⁴15,461 acre-feet to D. B. No. VI-E-1a, 15,521 acre-feet to D. B. No. VI-E-7.

State Table 2.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950

Item (For definitions and explanations, see text)	Colorado, total	Colorado River direct; Plateau Creek, Roaring Fork, Eagle River, Blue River, Muddy Creek, and Fraser River (IV-D- 1, 5-10)	San Juan and Dolores Rivers (IV-D-2, 4)	Green River (IV-E)	Gunnison River (IV-F)	Rio Grande River (V-C)	Arkansas River (VI-B)	North Platte River (VI-D)	South Platte River (VI-E)
1 Irrigation organizations, total									
2 number.....organizations 1959...	1,933	288	163	125	359	203	319	71	409
1949...	2,302	292	149	129	445	304	427	81	452
3 Area irrigated as reported by									
4 organizations.....acres 1959...	2,669,677	220,845	162,245	71,264	236,901	419,622	431,485	64,865	1,059,077
1949...	2,399,618	184,081	170,297	50,236	221,745	505,015	384,212	69,897	811,541
5 Farm water users served directly.....water users 1959...	35,051	4,603	2,437	503	4,613	3,278	6,905	169	12,520
6 Total water conveyed.....acre-feet 1959...	9,138,078	1,709,816	514,417	313,959	1,187,694	749,218	1,519,012	356,632	3,122,215
TYPE OF ORGANIZATION									
Mutual:									
7 Unincorporated.....organizations 1959...	1,261	243	112	117	283	124	214	66	101
1949...	1,279	247	107	118	332	204	326	78	124
9 Farm area irrigated directly.....acres 1959...	543,826	101,839	46,203	65,864	82,180	76,603	54,120	57,765	59,072
10 Farm water users served									
11 directly.....water users 1959...	6,071	1,216	714	445	1,031	637	977	139	896
12 Total water conveyed.....acre-feet 1959...	2,139,798	507,491	160,021	291,975	395,712	165,758	190,179	290,188	137,294
Incorporated:									
13 organizations 1959...	642	41	46	9	75	75	104	4	294
1949...	686	40	39	9	92	93	97	...	314
14 Farm area irrigated directly.....acres 1959...	1,938,870	104,491	106,370	(D)	(D)	304,959	(D)	(D)	880,766
15 Farm water users served									
16 directly.....water users 1959...	25,943	2,162	1,620	(D)	(D)	2,462	(D)	(D)	10,212
17 Total water conveyed.....acre-feet 1959...	6,234,031	843,937	331,439	(D)	(D)	558,544	(D)	(D)	2,463,475
18 District.....organizations 1959...	14	3	...	1	1	3	...	...	6
19 1949...	20	3	...	2	1	5	2	...	5
20 Farm area irrigated directly.....acres 1959...	161,697	14,515	...	(D)	(D)	38,060	...	...	105,897
21 Farm water users served									
22 directly.....water users 1959...	2,404	1,225	...	(D)	(D)	189	...	...	887
23 Total water conveyed.....acre-feet 1959...	345,653	89,808	...	(D)	(D)	24,916	...	...	216,853
24 U. S. Bureau of Reclamation; projects and stor-									
25 age systems operated by bureau.....organizations 1959...	6	1	3	...	...	1	...	...	1
1949...	4	1	2	...	...	1	...	...	1
26 Farm area irrigated directly.....acres 1959...	...	...	...	...	...	...	...	...	...
27 Farm water users served									
28 directly.....water users 1959...	...	...	...	...	...	...	...	...	...
29 Total water conveyed.....acre-feet 1959...	268,580	268,580	...	...	...	...	...	...	268,580
30 U. S. Bureau of Reclamation; operated									
31 by water users.....organizations 1959...	6	2	...	...	3	...	...	...	1
1949...	4	NA	NA	NA	NA	NA	NA	NA	NA
32 Farm area irrigated directly.....acres 1959...	109,440	(D)	...	...	81,095	...	...	...	(D)
33 Farm water users served									
34 directly.....water users 1959...	2,707	(D)	...	...	1,868	...	...	...	(D)
35 Total water conveyed.....acre-feet 1959...	871,054	(D)	...	...	491,594	...	...	...	(D)
36 U. S. Bureau of Indian Affairs.....organizations 1959...	2	...	2	...	...	...	...	...	...
1949...	1	...	1	...	...	...	...	...	...
37 Farm area irrigated directly.....acres 1959...	9,672	...	9,672	...	...	...	...	...	...
38 Farm water users served									
39 directly.....water users 1959...	103	...	103	...	...	...	...	...	...
40 Total water conveyed.....acre-feet 1959...	22,957	...	22,957	...	...	...	...	...	...
41 Commercial.....organizations 1959...	4	...	...	...	...	...	1	1	3
1949...	6	...	...	...	...	...	1	2	3
42 Farm area irrigated directly.....acres 1959...	2,740	...	...	...	...	...	(D)	...	500
43 Farm water users served									
44 directly.....water users 1959...	17	...	...	...	...	...	(D)	...	12
45 Total water conveyed.....acre-feet 1959...	98,038	...	...	...	...	...	(D)	(D)	6,952
46 State.....organizations 1959...	...	...	...	...	...	...	...	...	...
1949...	1	...	...	...	...	...	1	...	...
47 Farm area irrigated directly.....acres 1959...	...	...	...	...	...	...	...	...	...
48 Farm water users served									
49 directly.....water users 1959...	...	...	...	...	...	...	...	...	...
50 Total water conveyed.....acre-feet 1959...	...	...	...	...	...	...	...	...	...
51 City.....organizations 1959...	4	...	...	...	...	...	...	...	4
1949...	5	...	...	...	...	...	...	1	5
52 Farm area irrigated directly.....acres 1959...	12,912	...	...	...	...	...	...	...	12,912
53 Farm water users served									
54 directly.....water users 1959...	513	...	...	...	...	...	...	...	513
55 Total water conveyed.....acre-feet 1959...	29,021	...	...	...	...	...	...	...	29,021

D Data not shown to avoid disclosure of information for individual organizations.
NA Not available.

State Table 2.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Continued

Item (For definitions and explanations, see text)	Colorado, total	Colorado River direct: Plateau Creek, Roaring Fork, Eagle River, Blue River, Muddy Creek, and Frazer River (IV-D- 1, 5-10)	San Juan and Dolores Rivers	Green River	Gunnison River	Rio Grande River	Arkansas River	North Platte River	South Platte River
		(IV-D-2, 4)	(IV-E)	(IV-F)	(V-C)	(VI-B)	(VI-D)	(VI-E)	
TYPE OF SERVICE, 1959									
1 All water directly from surface and ground water sources.....organizations...	1,612	252	152	124	332	183	271	70	231
2 Total water conveyed.....acre-feet...	7,289,598	1,535,194	468,982	313,959	1,131,172	679,547	1,188,787	355,097	1,931,609
3 Water delivered.....acre-feet...	5,952,055	995,992	399,547	270,506	937,458	551,414	954,820	280,019	1,553,771
4 To farm and residential users only.....organizations...	1,532	245	148	124	325	171	259	68	191
5 acre-feet...	3,555,344	564,588	339,687	270,506	522,034	423,491	572,717	280,019	573,774
6 To farm and residential users and other irrigation organizations.....organizations...	67	3	3	...	6	11	12	...	33
7 Water to farm and residential users.....acre-feet...	1,347,291	288,640	32,144	...	383,948	71,747	229,382	...	341,430
8 Water to other irrigation organizations.....acre-feet...	618,736	138,767	26,818	...	30,806	34,982	152,721	...	234,642
9 To other irrigation organizations only.....organizations...	13	4	1	...	1	1	...	...	7
10 acre-feet...	430,684	3,997	898	...	670	21,194	...	...	403,925
11 Part of water from other organizations.....organizations...	90	25	4	...	12	5	2	1	43
12 Total water conveyed.....acre-feet...	1,032,046	121,253	24,170	...	21,427	37,318	147,735	1,575	698,744
13 From surface and ground water sources.....acre-feet...	416,086	28,338	17,719	...	16,130	13,495	124,558	1,575	232,530
14 From other irrigation organizations.....acre-feet...	615,960	92,915	6,451	...	5,297	23,823	23,177	...	466,214
15 Water delivered.....acre-feet...	874,508	74,692	21,197	...	18,652	34,079	121,175	...	604,713
16 To farm and residential users only.....organizations...	68	24	4	...	10	5	...	...	25
17 acre-feet...	289,233	74,692	21,197	...	10,074	34,079	...	...	149,191
18 To farm and residential users and other irrigation organizations.....organizations...	19	1	...	...	2	...	2	1	15
19 Water to farm and residential users.....acre-feet...	268,086	...	...	...	6,168	...	68,229	...	193,689
20 Water to other irrigation organizations.....acre-feet...	288,513	...	...	...	2,410	...	52,946	...	233,157
21 To other irrigation organizations only.....organizations...	2	...	...	...	...	...	...	...	2
22 acre-feet...	28,676	...	...	...	...	...	...	...	28,676
23 All of water from other organizations.....organizations...	205	9	4	...	8	12	44	...	128
24 Total water conveyed.....acre-feet...	816,434	53,369	21,265	...	35,095	32,353	182,490	...	491,862
25 Water delivered.....acre-feet...	716,404	41,730	17,328	...	32,946	26,426	163,203	...	434,771
26 To farm and residential users only.....organizations...	188	8	4	...	7	12	44	...	113
27 acre-feet...	559,500	13,562	17,328	...	25,945	26,426	163,203	...	313,036
28 To farm and residential users and other irrigation organizations.....organizations...	17	1	...	...	1	...	...	...	15
29 Water to farm residential users.....acre-feet...	91,119	24,648	...	...	495	...	...	...	65,976
30 Water to other irrigation organizations.....acre-feet...	65,785	3,520	...	...	6,506	...	...	...	55,759
31 To other irrigation organizations only.....organizations...	...	...	...	...	...	...	...	...	...
32 acre-feet...	...	...	...	...	...	...	...	...	...
33 No water conveyed.....organizations...	26	2	3	1	7	3	2	...	7
WATER FROM OTHER SOURCES									
34 Organizations reporting no water from other sources used on land served by the organization.....organizations...	1,470	239	149	114	278	134	294	62	198
35 acres served...	1,987,469	220,116	191,681	62,396	239,110	347,810	390,771	58,925	480,037
36 acres irrigated...	1,782,783	210,092	152,805	59,290	214,550	296,654	354,102	58,525	440,142
37 Water delivered to farms.....acre-feet...	4,493,562	764,120	392,590	250,540	893,020	382,120	821,883	260,663	720,076
38 acre-feet per acre...	2.5	3.6	2.6	4.2	4.2	1.3	2.3	4.4	1.6
39 Organizations reporting water from other sources used on land served by the organization.....organizations...	420	43	10	10	73	65	23	7	193
40 acres served...	1,059,677	80,541	10,020	14,767	36,159	225,540	84,943	34,000	660,527
41 acres irrigated...	893,987	74,123	9,920	14,767	23,351	122,968	77,383	33,340	620,635
42 Water delivered to farms.....acre-feet...	1,466,136	173,197	19,139	26,948	52,297	171,973	207,479	58,060	896,437
43 acre-feet per acre...	1.6	2.3	1.9	1.8	2.2	1.4	2.7	1.7	1.4

State Table 2.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Continued

Item (For definitions and explanations, see text)	Colorado, total, (IV-D-1)	Colorado River direct; Plateau Creek, Roaring Fork, Eagle River, Blue River, Muddy Creek, and Fraser River (IV-D-2, 4)	San Juan and Dolores Rivers (IV-E)	Green River (IV-F)	Gunnison River (V-C)	Rio Grande River (VI-B)	Arkansas River (VI-D)	North Platte River (VI-E)	South Platte River (VI-E)
WATER DELIVERED PER ACRE									
Organizations reporting no water from other sources used on same land:									
0.1 to 0.9 acre-feet per acre.....organizations...	137	20	20	3	23	24	30	...	18
1.0 to 1.9 acre-feet per acre.....organizations...	351,912	17,634	12,459	460	17,159	182,914	25,861	...	104,323
2.0 to 2.9 acre-feet per acre.....organizations...	539,475	59,570	26,252	4,720	23,102	64,452	141,889	200	219,290
3.0 to 3.9 acre-feet per acre.....organizations...	376,934	15,288	75,884	12,278	28,558	27,989	114,650	6,930	90,244
4.0 to 4.9 acre-feet per acre.....organizations...	162,064	26,822	16,655	13,453	19,312	32,188	32,299	24,515	16,423
5.0 to 5.9 acre-feet per acre.....organizations...	186,139	51,062	10,406	5,754	87,478	4,021	15,828	6,400	5,190
6.0 to 6.9 acre-feet per acre.....organizations...	63,036	12,220	6,260	12,981	13,673	1,095	2,804	9,880	3,942
7.0 to 7.9 acre-feet per acre.....organizations...	43,361	11,455	899	6,010	3,772	1,300	13,475	6,400	250
8.0 to 8.9 acre-feet per acre.....organizations...	17,001	4,211	2,025	1,270	5,488	1,350	1,257	1,400	...
9.0 to 9.9 acre-feet per acre.....organizations...	65	14	3	5	22	2	10	4	3
10.0 or more acre-feet per acre.....organizations...	29,520	7,347	1,648	1,974	10,876	1,150	3,415	2,800	310
acres irrigated...	48	15	1	2	...	...	7	...	1
acres irrigated...	13,341	4,503	324	390	5,330	...	2,624	...	170
SIZE OF ORGANIZATION									
Size of organization (number of farm irrigation water users served directly):									
None.....organizations...	45	6	6	4	8	4	2	2	20
1 to 3.....organizations...	810	153	74	78	186	62	137	64	56
4 to 9.....organizations...	1,921	363	178	185	429	155	327	148	136
10 to 29.....organizations...	3,072	475	468	108	79	92	4	94	609
30 to 99.....organizations...	4,973	24	19	14	39	31	48	...	136
100 to 299.....organizations...	7,927	375	311	192	538	451	818	...	2,250
300 to 999.....organizations...	9,489	542	605	...	838	1,027	1,109	...	3,857
1,000 or more.....organizations...	51	5	4	...	4	5	11	...	24
water users.....	7,634	732	485	...	560	819	1,683	168	3,697
acres irrigated...	6,917	1,782	600	...	1,662	370	2,467	...	2,020
acres irrigated...	2	1	...	...	...	...	...	...	...
acres irrigated...	2,662	1,000	...	...	...	...	...	...	...
Size of organization (acre-feet of water delivered directly to farms):									
None.....organizations...	45	6	4	1	8	4	2	2	20
1 to 299 acre-feet.....organizations...	431	57	49	11	101	43	115	2	53
300 to 999 acre-feet.....organizations...	60,242	8,602	7,349	1,968	11,196	6,301	16,732	417	7,677
1,000 to 2,999 acre-feet.....organizations...	520	82	49	46	105	73	82	6	76
3,000 to 9,999 acre-feet.....organizations...	314,300	50,282	26,133	30,346	63,876	41,695	51,221	3,759	46,044
10,000 to 29,999 acre-feet.....organizations...	891,871	167,296	48,792	69,434	156,891	65,522	106,526	60,086	218,643
30,000 to 99,999 acre-feet.....organizations...	332	37	23	21	49	34	41	25	101
100,000 or more acre-feet.....organizations...	1,761,332	187,326	129,009	107,499	240,297	187,000	226,349	146,917	529,549
acres irrigated...	16	4	1	...	1	1	6	...	5
acres irrigated...	1,483,674	222,105	134,256	68,241	124,483	173,873	194,204	68,840	507,672
acres irrigated...	18	5	1	...	...	...	6	1	7
acres irrigated...	956,806	301,706	76,190	...	...	79,702	291,591	38,724	306,908
acres irrigated...	491,273	...	...	...	348,534	...	142,739	...	...
Size of organization (acre-feet of water conveyed):									
None.....organizations...	277	2	3	1	7	3	2	2	8
1 to 299 acre-feet.....organizations...	49	41	9	9	38	104	1	41	6,832
300 to 999 acre-feet.....organizations...	54,184	7,421	6,421	1,590	10,550	5,919	15,307	144	6,832
1,000 to 2,999 acre-feet.....organizations...	306,540	53,642	32,435	25,527	60,736	44,465	43,142	3,404	43,190
3,000 to 9,999 acre-feet.....organizations...	479	79	28	46	85	35	71	25	110
10,000 to 29,999 acre-feet.....organizations...	869,688	151,976	49,217	79,618	154,816	60,847	123,183	51,208	199,196
30,000 to 99,999 acre-feet.....organizations...	379	46	20	23	61	38	44	29	117
100,000 or more acre-feet.....organizations...	2,038,341	209,845	103,676	127,057	305,221	218,503	267,632	173,332	626,375
acres irrigated...	126	19	12	7	12	13	14	7	41
acres irrigated...	2,078,828	290,563	181,933	88,321	196,198	255,852	244,878	106,580	718,103
acres irrigated...	35	6	2	...	...	...	8	...	21
acres irrigated...	1,918,744	331,751	140,735	...	...	30,796	468,260	85,010	1,158,599
acres irrigated...	8	3	...	...	1	1	2	...	2
acres irrigated...	1,879,507	828,687	...	...	460,434	132,836	356,610	...	369,920

State Table 3.—LAND IRRIGATED BY SOURCE OF WATER, BY DRAINAGE BASINS: CENSUS OF 1959

	Item (For definitions and explanations, see text)	Colorado, total	Colorado River direct; Plateau Greek, Boaring Fork, Eagle River, Muddy Creek, and Frazer River	San Juan River and Delores River	Green River	Gunnison River	Rio Grande River above Fort Quitman, Texas	Arkansas River	Platte River excluding South Platte River	South Platte River above Gaging Station near Pawnee, Nebraska
			(IV-D-1, 5-10)	(IV-D-2, 4)	(IV-E)	(IV-F)	(V-C)	(VI-B)	(VI-D)	(VI-E)
1	Total acres irrigated.....farms reporting...	20,312	2,633	1,396	536	2,439	1,632	3,767	127	7,524
2	acres...	2,684,797	254,019	150,550	86,179	247,555	419,408	445,428	133,682	913,101
3	Acres irrigated by sprinklers.....farms reporting...	1,088	95	26	37	37	21	129	3	656
4	acres...	52,808	5,582	1,186	1,133	795	2,621	7,750	110	28,572
5	Sprinklers only.....farms reporting...	432	22	5	10	4	4	86	...	254
6	acres...	24,668	1,178	506	320	115	493	5,842	...	13,320
7	LAND IRRIGATED, BY SOURCE OF WATER TO INDIVIDUAL FARMS, 1959									
8	Ground water sources on farm.....farms reporting...	4,884	63	28	29	42	798	868	2	2,828
9	acres...	495,814	2,381	1,029	1,845	2,383	167,487	69,078	440	219,284
10	Ground water sources on farm only.....farms reporting...	1,632	23	11	17	7	116	304	...	934
11	acres...	193,403	1,292	434	915	212	21,219	38,573	...	99,181
12	Surface sources on farm.....farms reporting...	3,533	676	250	291	354	295	644	119	888
13	acres...	617,711	134,552	23,103	43,171	67,959	58,742	65,520	121,202	102,016
14	Surface sources on farm only.....farms reporting...	2,457	591	177	256	214	159	507	112	431
15	acres...	508,669	123,660	16,646	36,539	54,909	31,483	52,722	115,207	76,616
16	Irrigation organization sources.....farms reporting...	15,971	2,007	1,197	263	2,206	1,300	2,901	13	6,060
17	acres...	1,571,232	117,086	126,418	41,163	177,213	193,179	310,830	12,040	591,801
18	Irrigation organization sources only.....farms reporting...	12,280	1,905	1,129	217	2,059	623	2,316	5	4,006
19	acres...	1,182,723	107,216	118,234	34,885	164,908	90,146	250,282	2,077	413,821
20	Both farm ground water sources and surface sources.....farms reporting...	252	13	9	7	12	54	53	2	98
21	acres...	61,553	3,612	845	1,077	4,189	25,910	10,198	1,864	13,152
22	Both irrigation organization and farm ground water or farm surface sources.....farms reporting...	3,691	101	70	39	147	680	587	8	2,055
23	acres...	738,409	18,239	14,391	12,763	23,337	250,650	93,653	14,534	310,331

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950

Item (For definitions and explanations, see text)	Colorado, total							
	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other	
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users		
Irrigation organizations.....organizations 1959...	1,933	1,261	642	14	6	6	10	
Service area, 1959:	2,302	1,579	686	20	4	4	13	
Area served, as reported								
by organizations.....acres.....	3,040,053	614,112	2,220,694	173,921	...	119,491	31,326	
Area irrigated, as reported								
by organizations.....acres.....	2,669,677	543,826	1,938,870	161,657	...	109,440	25,324	
Water users served, 1959, total.....water users.....	43,642	7,125	31,352	3,481	...	4,333	1,684	
Farm irrigation water users.....water users.....	35,051	6,071	25,943	2,404	...	2,707	633	
Residential water users.....water users.....	8,449	1,030	5,302	1,075	...	1,625	1,042	
Other water users.....water users.....	142	24	107	2	...	1	9	
TYPE OF SERVICE, 1959								
All water directly from surface and ground								
water sources.....organizations.....	1,612	1,181	417	6	1	4	7	
Total water conveyed.....acre-feet.....	7,289,598	2,054,622	4,682,182	197,202	268,580	802,726	127,009	
Water delivered.....acre-feet.....	5,952,055	1,762,017	3,795,589	96,164	268,580	588,785	29,705	
To farm and residential users								
only.....organizations.....	1,532	1,174	346	6	...	1	6	
acre-feet.....	3,555,344	1,731,832	1,700,644	96,164	...	4,050	26,704	
To farm and residential users and other								
irrigation organizations.....organizations.....	67	6	60	...	...	3	1
Water to farm and residential								
users.....acre-feet.....	1,347,291	7,624	1,336,771	...	...	477,194	2,896
Water to other irrigation								
organizations.....acre-feet.....	618,736	16,977	601,654	...	...	107,541	105
To other irrigation organizations								
only.....organizations.....	13	1	11	...	1	...	...
acre-feet.....	430,684	5,584	156,520	...	268,580	...	...
Part of water from other								
organizations.....organizations.....	90	32	52	4	...	2	2	
Total water conveyed.....acre-feet.....	1,032,046	26,255	857,941	124,843	...	68,328	23,007	
From surface and ground water								
sources.....acre-feet.....	416,086	18,483	619,465	1,238,956	...	1,256,697	17,094	
From other irrigation organizations.....acre-feet.....	615,960	7,772	238,476	363,799	...	325,025	5,913	
Water delivered.....acre-feet.....	874,508	22,838	742,969	88,507	...	43,521	20,194	
To farm and residential users								
only.....organizations.....	68	32	32	2	...	1	2	
acre-feet.....	289,233	22,838	192,070	54,131	...	34,055	20,194	
To farm and residential users and other								
irrigation organizations.....organizations.....	19	...	17	2	...	1	...	
Water to farm and residential								
users.....acre-feet.....	268,086	...	253,827	14,259	...	1,809	...	
Water to other irrigation								
organizations.....acre-feet.....	288,513	...	268,396	20,117	...	7,657	...	
To other irrigation organizations								
only.....organizations.....	2	...	2	...	...	...	...
acre-feet.....	28,676	...	28,676	...	...	...	...
All of water from other organizations.....organizations.....	205	44	159	2	...	...	...
Total water conveyed.....acre-feet.....	816,434	58,918	693,908	63,608	...	...	...
Water delivered.....acre-feet.....	716,404	52,899	626,909	36,596	...	...	...
To farm and residential users								
only.....organizations.....	188	41	145	2	...	...	...
acre-feet.....	559,500	37,927	484,977	36,596	...	...	...
To farm and residential users and other								
irrigation organizations.....organizations.....	17	3	14	...	...	...	...
Water to farm and residential								
users.....acre-feet.....	91,119	7,384	83,735	...	...	...	...
Water to other irrigation								
organizations.....acre-feet.....	65,785	7,588	58,197	...	...	...	...
To other irrigation organizations								
only.....organizations.....	...	...	...	...	...	...	...
acre-feet.....	...	...	...	...	...	...	...
No water conveyed.....organizations.....	26	4	14	2	5	...	1	
WATER FROM OTHER SOURCES								
Organizations reporting no water from other								
sources used on the land served by the								
organization.....organizations.....	1,470	1,032	420	11	...	6	7	
acres served.....	1,987,469	463,149	1,343,817	152,477	...	119,491	28,026	
acres irrigated.....	1,782,783	414,892	1,204,914	140,953	...	109,440	22,024	
water delivered to farms (acre-feet).....	4,493,362	1,527,359	2,758,400	168,642	...	505,928	36,861	
acre-feet per acre.....	2.5	3.7	2.3	1.2	...	4.6	1.8	
Organizations reporting water from other								
sources used on land served by the								
organization.....organizations.....	420	223	194	1	...	...	2
acres served.....	1,059,677	151,043	883,890	21,444	...	...	3,300
acres irrigated.....	893,987	129,014	740,969	20,704	...	...	3,300
water delivered to farms (acre-feet).....	1,466,136	261,953	1,171,935	29,018	...	...	3,230
acre-feet per acre.....	1.6	2.0	1.6	1.4	...	...	1.0
NEW CAPITAL INVESTMENT, 1950-1959								
Expenditures for additional new works and								
equipment for irrigation and drainage,								
January 1, 1950-December 31, 1959.....organizations.....	903	631	256	8	2	5	6	
By U. S. B. R.....dollars.....	48,722,036	...	...	13,410,358	35,311,678	13,410,358	...
By water users organizations.....dollars.....	11,115,569	1,605,870	8,356,391	733,188	...	2,601,763	420,120	

See footnote at end of table.

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

Item (For definitions and explanations, see text)	Colorado, total						
	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users	
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
Total entering conveyance systems.....organizations... acre-feet.....	1,906 7,705,684	1,257 2,073,108	627 5,301,647	12 1-81,754	1 268,580	6 546,029	9 144,103
From another drainage basin.....organizations... acre-feet.....	1 4,038	... ...	1 4,038	......	......	......	......
From drainage basin.....D. B. No.....	...	...	...	...	...	...	...
From sources within basin.....organizations... acre-feet.....	1,701 7,701,646	1,213 2,073,108	468 5,297,609	10 1-81,754	1 268,580	6 546,029	9 144,103
Surface water.....organizations... acre-feet.....	1,692 7,670,472	1,206 2,067,482	466 5,275,701	10 1-81,754	1 268,580	6 546,029	9 140,463
Ground water.....organizations... acre-feet.....	24 31,174	12 5,626	10 21,908	... ...	... ...	... ...	2 3,640
From other organizations in the basin.....organizations receiving... acre-feet.....	295 1,432,394	76 66,690	211 932,384	6 427,407	... ...	2 325,025	2 5,913
Total leaving conveyance systems.....organizations... acre-feet.....	1,906 7,705,684	1,257 2,109,649	627 5,120,588	12 325,536	1 ...	6 755,856	9 149,911
Conveyance loss in basin.....organizations... acre-feet.....	1,767 1,433,931	1,183 295,062	563 991,614	12 123,248	... ...	6 237,710	9 24,007
Conveyed to another drainage basin.....organizations... acre-feet.....	4 15,427	1 242	3 15,185	......	......	......	......
To drainage basin number.....D. B. No.....	...	...	...	...	...	...	...
Delivered for use in the basin.....organizations... acre-feet.....	1,893 6,256,326	1,257 1,814,345	615 4,113,789	12 202,288	... ...	6 518,146	9 125,904
To farm irrigation water users.....organizations... acre-feet.....	1,888 5,943,099	1,255 1,789,092	612 3,914,156	12 197,660	... ...	6 505,928	9 42,191
To domestic water users.....organizations... acre-feet.....	130 167,474	54 18,513	70 137,868	2 3,490	... ...	3 11,180	4 7,603
For other use.....organizations... acre-feet.....	50 145,753	11 6,740	32 61,765	2 1,138	... ...	5 1,038	1 76,110
Delivered to other irrigation organizations.....organizations delivering... acre-feet.....	118 1,432,394	10 30,149	104 1,113,443	2 20,117	1 268,580	4 115,198	1 105
SIZE OF ORGANIZATION, 1959							
Size of organization (number of farm irrigation water users):							
None.....organizations...	60	20	31	2	6	...	1
1 to 3 water users.....organizations...	810	774	34	...	...	...	2
4 to 9 water users.....organizations...	540	373	164	1	...	...	2
10 to 29 water users.....organizations...	303	75	223	2	...	...	3
30 to 99 water users.....organizations...	151	18	132	1	...	...	2
100 to 299 water users.....organizations...	51	1	44	5	...	...	1
300 to 999 water users.....organizations...	16	...	12	3	...	...	1
1,000 or more water users.....organizations...	2	...	2	...	...	1	...
Size of organization (acre-feet of water delivered directly to farms):							
None.....organizations...	45	6	30	2	6	...	1
1 to 299 acre-feet.....organizations...	431	375	55	...	...	...	1
300 to 999 acre-feet.....organizations...	520	413	103	1	...	...	3
1,000 to 2,999 acre-feet.....organizations...	489	321	166	1	...	1	1
3,000 to 9,999 acre-feet.....organizations...	332	127	199	3	...	1	3
10,000 to 29,999 acre-feet.....organizations...	96	19	71	5	...	1	1
30,000 to 99,999 acre-feet.....organizations...	18	...	16	2	...	2	...
100,000 or more acre-feet.....organizations...	2	...	2	...	...	1	...
Size of organization (acre-feet of water conveyed):							
None.....organizations...	27	4	15	2	5	...	1
1 to 299 acre-feet.....organizations...	377	334	43	...	...	...	...
300 to 999 acre-feet.....organizations...	502	406	94	...	...	...	2
1,000 to 2,999 acre-feet.....organizations...	479	318	160	1	...	1	...
3,000 to 9,999 acre-feet.....organizations...	379	170	203	2	...	1	4
10,000 to 29,999 acre-feet.....organizations...	126	28	91	5	...	1	2
30,000 to 99,999 acre-feet.....organizations...	35	1	29	4	...	1	1
100,000 or more acre-feet.....organizations...	8	...	7	...	1	2	...

¹Water was transferred to the basin and released to natural stream channels in excess of the quantity of surface water withdrawn by irrigation organizations. The net effect was to increase the available surface water supply in the basin or State.

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950-Cont.

Item (For definitions and explanations, see text)	Colorado River direct, Plateau Creek, Boaring Fork, Eagle River, Blue River, Muddy Creek, and Fraser River (IV-D-1 and 2-10)						
	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users	
Irrigation organizations.....organizations 1959...	288	243	41	3	1	2	...
1949...	292	247	40	3	1	NA	1
Service area, 1959:							
Area served, as reported							
by organizations.....acres...	233,627	109,692	106,377	15,588	...	(D)	...
Area irrigated, as reported							
by organizations.....acres...	220,845	101,839	104,491	14,515	...	(D)	...
Water users served, 1959, total.....water users...	7,631	1,284	4,052	2,295	...	(D)	...
Farm irrigation water users.....water users...	4,603	1,216	2,162	1,225	...	(D)	...
Residential water users.....water users...	3,022	62	1,890	1,070	...	(D)	...
Other water users.....water users...	6	6	...	...	...	...	...
TYPE OF SERVICE, 1959							
All water directly from surface and ground							
water sources.....organizations...	252	220	31	...	1	1	...
Total water conveyed.....acre-feet...	1,535,194	492,350	774,264	...	268,580	(D)	...
Water delivered.....acre-feet...	995,992	426,562	569,430	...	...	(D)	...
To farm and residential users							
only.....organizations...	245	220	25	...	...	...	...
acre-feet...	564,388	426,562	138,026	...	...	...	...
To farm and residential users and other							
irrigation organizations.....organizations...	3	...	3	...	...	1	...
Water to farm and residential							
users.....acre-feet...	288,640	...	288,640	...	...	(D)	...
Water to other irrigation							
organizations.....acre-feet...	138,767	...	138,767	...	...	(D)	...
To other irrigation organizations							
only.....organizations...	4	...	3	...	1	...	...
acre-feet...	3,997	...	3,997	...	...	...	...
Part of water from other							
organizations.....organizations...	25	19	4	2	...	...	...
Total water conveyed.....acre-feet...	121,253	15,070	27,153	79,030	...	(D)	...
From surface and ground water							
sources.....acre-feet...	28,338	11,877	26,420	1,3,494	...	(D)	...
From other irrigation organizations.....acre-feet...	92,915	3,193	733	88,985	...	...	...
Water delivered.....acre-feet...	74,692	13,008	7,553	54,131	...	...	...
To farm and residential users							
only.....organizations...	84	19	3	...	...	1	...
acre-feet...	74,692	13,008	7,553	54,131	...	...	...
To farm and residential users and other							
irrigation organizations.....organizations...	1	...	1	...	...	...	...
Water to farm and residential							
users.....acre-feet...	...	...	...	...	...	...	...
Water to other irrigation							
organizations.....acre-feet...	...	...	...	...	...	...	...
To other irrigation organizations							
only.....organizations...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
All of water from other organizations.....organizations...	9	4	4	1	...	...	...
Total water conveyed.....acre-feet...	53,369	71	42,520	10,778	...	...	...
Water delivered.....acre-feet...	41,730	67	34,085	7,778	...	...	...
To farm and residential users							
only.....organizations...	8	4	3	1	...	...	...
acre-feet...	13,562	67	5,917	7,778	...	...	...
To farm and residential users and other							
irrigation organizations.....organizations...	1	...	1	...	...	...	...
Water to farm and residential							
users.....acre-feet...	24,648	...	24,648	...	...	...	...
Water to other irrigation							
organizations.....acre-feet...	3,520	...	3,520	...	...	...	...
To other irrigation organizations							
only.....organizations...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
No water conveyed.....organizations...	2	...	2	...	...	...	...
WATER FROM OTHER SOURCES							
Organizations reporting no water from other							

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

Colorado River direct, Plateau Creek, Roaring Fork, Eagle River, Blue River, Muddy Creek, and Fraser River (IV-D-1 and 5-10)							
Item (For definitions and explanations, see text)	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users	
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
Total entering conveyance systems.....organizations... acre-feet...	286 1,563,532	243 504,227	39 800,684	3 1-9,959	1 268,580	2...	...
From another drainage basin.....organizations... acre-feet...	...	...	...	...	...	...	...
From drainage basin.....D. B. No..... acre-feet...	...	...	...	...	...	...	...
From sources within basin.....organizations... acre-feet...	277 1,563,532	239 504,227	35 800,684	2 1-9,959	1 268,580	2...	...
Surface water.....organizations... acre-feet...	277 1,563,115	239 503,810	35 800,684	2 1-9,959	1 268,580	2...	...
Ground water.....organizations... acre-feet...	2 417	2 417	...	...	...	...	...
From other organizations in the basin..... organizations receiving... acre-feet...	33 146,284	23 3,264	7 43,253	3 99,767	...	1...	...
Total leaving conveyance systems.....organizations... acre-feet...	286 1,563,532	243 507,491	39 697,653	3 89,808	1 268,580	2...	...
Conveyance loss in basin.....organizations... acre-feet...	271 263,135	233 67,588	35 167,448	3 28,099	...	2...	...
Conveyed to another drainage basin.....organizations... acre-feet...	5 334,001	...	4 65,421	...	1 268,580	...	...
To drainage basin number.....D. B. No..... acre-feet...	...	...	...	...	...	...	...
Delivered for use in the basin.....organizations... acre-feet...	279 966,396	243 439,903	33 464,784	3 61,709	...	2...	...
To farm irrigation water users.....organizations... acre-feet...	279 831,724	243 427,922	33 345,573	3 58,229	...	2...	...
To domestic water users.....organizations... acre-feet...	21 134,406	16 11,715	4 119,211	1 3,480	...	2...	...
For other use.....organizations... acre-feet...	1 266	1 266	...	...	...	...	...
Delivered to other irrigation organizations..... organizations delivering... acre-feet...	6 146,284	...	6 146,284	...	...	1...	...
SIZE OF ORGANIZATION, 1959							
Size of organization (number of farm irrigation water users):							
None.....organizations... 1 to 3 water users.....organizations... 4 to 9 water users.....organizations... 10 to 29 water users.....organizations... 30 to 99 water users.....organizations... 100 to 299 water users.....organizations... 300 to 999 water users.....organizations... 1,000 or more water users.....organizations...	6 153 85 24 10 5 4 1	...	5 5 12 5 7 4 2 ...	...	1	(D) (D) (D) (D) (D) (D) (D) (D)	...
Size of organization (acre-feet of water delivered directly to farms):							
None.....organizations... 1 to 299 acre-feet.....organizations... 300 to 999 acre-feet.....organizations... 1,000 to 2,999 acre-feet.....organizations... 3,000 to 9,999 acre-feet.....organizations... 10,000 to 29,999 acre-feet.....organizations... 30,000 to 99,999 acre-feet.....organizations... 100,000 or more acre-feet.....organizations...	6 57 82 86 37 15 5 ...	...	5 2 3 9 10 8 4 ...	...	1	(D) (D) (D) (D) (D) (D) (D) (D)	...
Size of organization (acre-feet of water conveyed):							
None.....organizations... 1 to 299 acre-feet.....organizations... 300 to 999 acre-feet.....organizations... 1,000 to 2,999 acre-feet.....organizations... 3,000 to 9,999 acre-feet.....organizations... 10,000 to 29,999 acre-feet.....organizations... 30,000 to 99,999 acre-feet.....organizations... 100,000 or more acre-feet.....organizations...	2 49 84 79 46 19 6 3	...	2 1 4 10 11 7 4 2	...	...	(D) (D) (D) (D) (D) (D) (D) (D)	...

D Data not shown to avoid disclosure of information for individual organizations.

NA Not available.

Water was transferred to the basin and released to natural stream channels an excess of the quantity of surface water withdrawn by irrigation organizations. The net effect was to increase the available surface water supply in the basin or State.

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

San Juan River and Dolores River (IV-D-2-4)								
Item (For definitions and explanations, see text)	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other	
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users		
Irrigation organizations.....organizations 1959...	163	112	46	...	3	...	2	
Service area, 1959:	149	107	39	...	2	NA	1	
Area served, as reported								
by organizations.....acres...	201,221	65,243	126,150	...	...	...	9,828
Area irrigated, as reported								
by organizations.....acres...	162,245	46,203	106,370	...	...	...	9,672
Water users served, 1959, total.....water users...	2,490	741	1,645	...	...	...	104
Farm irrigation water users.....water users...	2,437	714	1,620	...	...	...	103
Residential water users.....water users...	49	25	24	...	...	...	...
Other water users.....water users...	4	2	1	...	...	...	1
TYPE OF SERVICE, 1959								
All water directly from surface and ground								
water sources.....organizations...	152	111	40	...	...	...	1
Total water conveyed.....acre-feet...	468,982	156,984	311,518	...	...	...	480
Water delivered.....acre-feet...	399,547	133,228	265,839	...	...	...	480
To farm and residential users								
only.....organizations...	146	111	36	...	...	...	1
acre-feet...	339,687	133,228	205,979	...	...	...	480
To farm and residential users and other								
irrigation organizations.....organizations...	3	...	3	...	...	...	...
Water to farm and residential								
users.....acre-feet...	32,144	...	32,144	...	...	...	...
Water to other irrigation								
organizations.....acre-feet...	26,818	...	26,818	...	...	...	...
To other irrigation organizations								
only.....organizations...	1	...	1	...	...	...	...
acre-feet...	898	...	898	...	...	...	...
Part of water from other								
organizations.....organizations...	4	...	3	...	...	...	1
Total water conveyed.....acre-feet...	24,170	...	1,693	...	...	...	22,477
From surface and ground water								
sources.....acre-feet...	1,719	...	525	...	...	...	17,194
From other irrigation organizations.....acre-feet...	6,451	...	1,168	...	...	...	5,283
Water delivered.....acre-feet...	21,197	...	1,403	...	...	...	19,794
To farm and residential users								
only.....organizations...	4	...	3	...	...	...	1
acre-feet...	21,197	...	1,403	...	...	...	19,794
To farm and residential users and other								
irrigation organizations.....organizations...	...	...	...	...	...	...	...
Water to farm and residential								
users.....acre-feet...	...	...	...	...	...	...	...
Water to other irrigation								
organizations.....acre-feet...	...	...	...	...	...	...	...
To other irrigation organizations								
only.....organizations...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
All of water from other organizations.....organizations...	4	1	3	...	...	...	...
Total water conveyed.....acre-feet...	21,265	3,037	18,228	...	...	...	...
Water delivered.....acre-feet...	17,328	2,516	14,812	...	...	...	...
To farm and residential users								
only.....organizations...	4	1	3	...	...	...	...
acre-feet...	17,328	2,516	14,812	...	...	...	...
To farm and residential users and other								
irrigation organizations.....organizations...	...	...	...	...	...	...	...
Water to farm and residential								
users.....acre-feet...	...	...	...	...	...	...	...
Water to other irrigation								
organizations.....acre-feet...	...	...	...	...	...	...	...
To other irrigation organizations								
only.....organizations...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
No water conveyed.....organizations...	3	...	...	...	3	...	...
WATER FROM OTHER SOURCES								
Organizations reporting no water from other								
sources used on the land served by the								
organization.....organizations...	149	102	45	...	...	...	2
acres served.....acres...	191,661	55,303	126,550	...	...	...	9,828
acres irrigated.....acres...	132,805	36,363	106,770	...	...	...	9,672
water delivered to farms (acre-feet)...	392,590	116,692	255,624	...	...	...	20,274
acre-feet per acre...	2.6	3.2	2.4	...	...	...	2.1
Organizations reporting water from other								
sources used on land served by the								
organization.....organizations...	10	10	...	...	...	...	...
acres served.....acres...	10,020	10,020	...	...	...	...	...
acres irrigated.....acres...	9,920	9,920	...	...	...	...	...
water delivered to farms (acre-feet)...	19,139	19,139	...	...	...	...	...
acre-feet per acre...	1.9	1.9	...	...	...	...	...
NEW CAPITAL INVESTMENT, 1950-1959								
Expenditures for additional new works and								
equipment for irrigation and drainages,								
January 1, 1950-December 31, 1959.....organizations...	80	52	26	...	...	...	2
By U. S. B. R.....dollars...	...	...	...	...	...	...	...
by water users organizations.....dollars...	1,624,178	320,919	977,659	...	...	...	325,600
See footnote at end of table.								

See footnote at end of table.

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

		San Juan River and Dolores River (IV-D-2-4)						
Item (For definitions and explanations, see text)	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other	
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users		
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959								
Total entering conveyance systems.....organizations...	160	112	46	...	...	...	2
acre-feet...	486,701	156,984	312,043	...	...	...	17,674
From another drainage basin.....organizations...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
From drainage basin.....D. B. No. ....	...	...	...	...	...	...	...
From sources within basin.....organizations...	156	111	43	...	...	...	2
acre-feet...	486,701	156,984	312,043	...	...	...	17,674
Surface water.....organizations...	156	111	43	...	...	...	2
acre-feet...	486,701	156,984	312,043	...	...	...	17,674
Ground water.....organizations...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
From other organizations in the basin..... organizations receiving...	8	1	6	...	...	...	1
acre-feet...	27,716	3,037	19,396	...	...	...	5,283
Total leaving conveyance systems.....organizations...	160	112	46	...	...	...	2
acre-feet...	486,701	160,021	302,062	1,661	...	...	22,957
Conveyance loss in basin.....organizations...	148	105	42	...	...	...	1
acre-feet...	70,969	22,302	46,224	...	...	...	2,443
Conveyed to another drainage basin.....organizations...	2	1	...	1	...	...	...
acre-feet...	1,903	242	...	1,661	...	...	...
To drainage basin number.....D. B. No. ....	...	...	...	...	...	...	...
Delivered for use in the basin.....organizations...	159	112	45	...	...	...	2
acre-feet...	413,829	137,477	255,838	...	...	...	20,514
To farm irrigation water users.....organizations...	159	112	45	...	...	...	2
acre-feet...	410,180	135,611	254,295	...	...	...	20,274
To domestic water users.....organizations...	8	6	2	...	...	...	...
acre-feet...	176	133	43	...	...	...	...
For other use.....organizations...	5	3	1	...	...	...	1
acre-feet...	3,473	1,733	1,500	...	...	...	240
Delivered to other irrigation organizations..... organizations delivering...	4	...	4	...	...	...	...
acre-feet...	27,716	...	27,716	...	...	...	...
SIZE OF ORGANIZATION, 1959								
Size of organization (number of farm irrigation water users):								
None.....organizations...	6	2	1	...	3	...	...
1 to 3 water users.....organizations...	74	72	1	...	...	...	...
4 to 9 water users.....organizations...	48	32	16	...	...	...	...
10 to 29 water users.....organizations...	19	2	17	...	...	...	...
30 to 99 water users.....organizations...	11	3	8	...	...	...	...
100 to 299 water users.....organizations...	4	1	2	...	...	...	1
300 to 999 water users.....organizations...	1	...	1	...	...	...	...
1,000 or more water users.....organizations...	...	...	...	...	...	...	...
Size of organization (acre-feet of water delivered directly to farms):								
None.....organizations...	4	...	1	...	3	...	...
1 to 299 acre-feet.....organizations...	49	44	5	...	...	...	...
300 to 999 acre-feet.....organizations...	49	37	11	...	...	...	1
1,000 to 2,999 acre-feet.....organizations...	30	22	8	...	...	...	...
3,000 to 9,999 acre-feet.....organizations...	23	6	17	...	...	...	...
10,000 to 29,999 acre-feet.....organizations...	7	3	3	...	...	...	1
30,000 to 99,999 acre-feet.....organizations...	1	...	1	...	...	...	...
100,000 or more acre-feet.....organizations...	...	...	...	...	...	...	...
Size of organization (acre-feet of water conveyed):								
None.....organizations...	3	...	...	...	3	...	...
1 to 299 acre-feet.....organizations...	41	36	5	...	...	...	...
300 to 999 acre-feet.....organizations...	57	45	11	...	...	...	3
1,000 to 2,999 acre-feet.....organizations...	28	20	8	...	...	...	...
3,000 to 9,999 acre-feet.....organizations...	20	8	12	...	...	...	...
10,000 to 29,999 acre-feet.....organizations...	12	3	8	...	...	...	1
30,000 to 99,999 acre-feet.....organizations...	2	...	2	...	...	...	...
100,000 or more acre-feet.....organizations...	...	...	...	...	...	...	...

NA Not available.

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950-Conn.

Item (For definitions and explanations, see text)	Green River (IV-5)						
	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users	
Irrigation organizations.....organizations 1959...	125	117	7	1	...	...	...
1949...	129	118	9	2	...	NA	...
Service area, 1959:							
Area served, as reported							
by organizations.....acres...	74,370	67,645	(D)	(D)	...	...	...
Area irrigated, as reported							
by organizations.....acres...	71,264	65,864	(D)	(D)	...	...	...
Water users served, 1959, total.....water users...	503	445	(D)	(D)	...	...	...
Farm irrigation water users.....water users...	503	445	(D)	(D)	...	...	...
Residential water users.....water users...	...	...	...	...	...	...	...
Other water users.....water users...	...	...	...	...	...	...	...
TYPE OF SERVICE, 1959							
All water directly from surface and ground							
water sources.....organizations...	124	117	6	1	...	...	...
Total water conveyed.....acre-feet...	313,959	291,975	(D)	(D)	...	...	...
Water delivered.....acre-feet...	270,506	253,895	(D)	(D)	...	...	...
To farm and residential users							
only.....organizations...	124	117	6	1	...	...	...
acre-feet...	270,506	253,895	(D)	(D)	...	...	...
To farm and residential users and other							
irrigation organizations.....organizations...	...	...	...	...	...	...	...
Water to farm and residential							
users.....acre-feet...	...	...	...	...	...	...	...
Water to other irrigation							
organizations.....acre-feet...	...	...	...	...	...	...	...
To other irrigation organizations							
only.....organizations...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
Part of water from other							
organizations.....organizations...	...	...	...	...	...	...	...
Total water conveyed.....acre-feet...	...	...	...	...	...	...	...
From surface and ground water							
sources.....acre-feet...	...	...	...	...	...	...	...
From other irrigation organizations.....acre-feet...	...	...	...	...	...	...	...
Water delivered.....acre-feet...	...	...	...	...	...	...	...
To farm and residential users							
only.....organizations...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
To farm and residential users and other							
irrigation organizations.....organizations...	...	...	...	...	...	...	...
Water to farm and residential							
users.....acre-feet...	...	...	...	...	...	...	...
Water to other irrigation							
organizations.....acre-feet...	...	...	...	...	...	...	...
To other irrigation organizations							
only.....organizations...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
All of water from other organizations.....organizations...	...	...	...	...	...	...	...
Total water conveyed.....acre-feet...	...	...	...	...	...	...	...
Water delivered.....acre-feet...	...	...	...	...	...	...	...
To farm and residential users							
only.....organizations...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
To farm and residential users and other							
irrigation organizations.....organizations...	...	...	...	...	...	...	...
Water to farm and residential							
users.....acre-feet...	...	...	...	...	...	...	...
Water to other irrigation							
organizations.....acre-feet...	...	...	...	...	...	...	...
To other irrigation organizations							
only.....organizations...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
No water conveyed.....organizations...	1	...	1	...	...	...	...
WATER FROM OTHER SOURCES							
Organizations reporting no water from other							
sources used on the land served by the							
organization.....organizations...	114	108	5	1	...	...	...
acres served...	62,396	54,638	(D)	(D)	...	...	...
acres irrigated...	59,290	52,897	(D)	(D)	...	...	...
water delivered to farms (acre-feet)...	250,540	229,422	(D)	(D)	...	...	...
acre-feet per acre...	4.2	4.3	(D)	(D)	...	...	...
Organizations reporting water from other							
sources used on land served by the							
organization.....organizations...	10	9	1	...	...	...	...
acres served...	14,767	13,007	1,760	...	...	...	...
acres irrigated...	14,767	13,007	1,760	...	...	...	...
water delivered to farms (acre-feet)...	26,948	24,473	2,475	...	...	...	...
acre-feet per acre...	1.8	1.9	1.4	...	...	...	...
NEW CAPITAL INVESTMENT, 1950-1959							
Expenditures for additional new works and							
equipment for irrigation and drainage,							
January 1, 1950-December 31, 1959.....organizations...	105	98	6	1	...	...	...
By U. S. B. R.....dollars...	...	...	...	...	...	...	...
by water users organizations.....dollars...	331,245	264,945	(D)	(D)	...	...	...

See footnotes at end of table.

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

Green River (IV-E)							
Item (For definitions and explanations, see text)	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users	
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
Total entering conveyance systems.....organizations...	124	117	6	1	...	...	...
acre-feet.....	313,959	291,975	(D)	(D)	...	...	...
From another drainage basin.....organizations...	1	...	1	...	...	...	...
acre-feet.....	4,038	...	(D)	...	...	...	...
From drainage basin.....D. B. No.....	...	...	...	...	...	...	...
From sources within basin.....organizations...	123	117	5	1	...	...	...
acre-feet.....	309,921	291,975	(D)	(D)	...	...	...
Surface water.....organizations...	123	117	5	1	...	...	...
acre-feet.....	309,921	291,975	(D)	(D)	...	...	...
Ground water.....organizations...	...	...	...	...	...	...	...
acre-feet.....	...	...	...	...	...	...	...
From other organizations in the basin.....organizations receiving.....	...	...	...	...	...	...	...
acre-feet.....	...	...	...	...	...	...	...
Total leaving conveyance systems.....organizations...	124	117	6	1	...	...	...
acre-feet.....	313,959	291,975	(D)	(D)	...	...	...
Conveyance loss in basin.....organizations...	122	115	6	1	...	...	...
acre-feet.....	43,453	38,080	(D)	(D)	...	...	...
Conveyed to another drainage basin.....organizations...	...	...	...	...	...	...	...
acre-feet.....	...	...	...	...	...	...	...
To drainage basin number.....D. B. No.....	...	...	...	...	...	...	...
Delivered for use in the basin.....organizations...	124	117	6	1	...	...	...
acre-feet.....	270,506	253,895	(D)	(D)	...	...	...
To farm irrigation water users.....organizations...	124	117	6	1	...	...	...
acre-feet.....	270,506	253,895	(D)	(D)	...	...	...
To domestic water users.....organizations...	...	...	...	...	...	...	...
acre-feet.....	...	...	...	...	...	...	...
For other use.....organizations...	...	...	...	...	...	...	...
acre-feet.....	...	...	...	...	...	...	...
Delivered to other irrigation organizations.....organizations delivering.....	...	...	...	...	...	...	...
acre-feet.....	...	...	...	...	...	...	...
SIZE OF ORGANIZATION, 1959							
Size of organization (number of farm irrigation water users):							
None.....organizations...	4	3	(D)	(D)	...	...	...
1 to 3 water users.....organizations...	78	77	(D)	(D)	...	...	...
4 to 9 water users.....organizations...	29	26	(D)	(D)	...	...	...
10 to 29 water users.....organizations...	14	11	(D)	(D)	...	...	...
30 to 99 water users.....organizations...	...	...	...	...	...	...	...
100 to 299 water users.....organizations...	...	...	...	...	...	...	...
300 to 999 water users.....organizations...	...	...	...	...	...	...	...
1,000 or more water users.....organizations...	...	...	...	...	...	...	...
Size of organization (acre-feet of water delivered directly to farms):							
None.....organizations...	1	...	(D)	(D)	...	...	...
1 to 299 acre-feet.....organizations...	11	10	(D)	(D)	...	...	...
300 to 999 acre-feet.....organizations...	46	45	(D)	(D)	...	...	...
1,000 to 2,999 acre-feet.....organizations...	40	37	(D)	(D)	...	...	...
3,000 to 9,999 acre-feet.....organizations...	21	20	(D)	(D)	...	...	...
10,000 to 29,999 acre-feet.....organizations...	6	5	(D)	(D)	...	...	...
30,000 to 99,999 acre-feet.....organizations...	...	...	...	...	...	...	...
100,000 or more acre-feet.....organizations...	...	...	...	...	...	...	...
Size of organization (acre-feet of water conveyed):							
None.....organizations...	1	...	(D)	(D)	...	...	...
1 to 299 acre-feet.....organizations...	9	8	(D)	(D)	...	...	...
300 to 999 acre-feet.....organizations...	39	38	(D)	(D)	...	...	...
1,000 to 2,999 acre-feet.....organizations...	46	43	(D)	(D)	...	...	...
3,000 to 9,999 acre-feet.....organizations...	23	22	(D)	(D)	...	...	...
10,000 to 29,999 acre-feet.....organizations...	7	6	(D)	(D)	...	...	...
30,000 to 99,999 acre-feet.....organizations...	...	...	...	...	...	...	...
100,000 or more acre-feet.....organizations...	...	...	...	...	...	...	...

D Data not shown to avoid disclosure of information for individual organizations.

NA Not available.

See footnotes at end of table.

		Gunnison River (IV-F)						
Item (For definitions and explanations, see text)	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other	
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users		
Irrigation organizations.....organizations 1959...	359	283	75	1	...	3	...	
Service area, 1959:	445	352	92	1	...	NA	...	
Area served, as reported								
by organizations.....acres...	274,269	93,327	(D)	(D)	...	90,411	...	
Area irrigated, as reported								
by organizations.....acres...	236,901	82,180	(D)	(D)	...	81,095	...	
Water users served, 1959, total.....water users...	5,047	1,052	(D)	(D)	...	2,168	...	
Farm irrigation water users.....water users...	4,613	1,031	(D)	(D)	...	1,868	...	
Residential water users.....water users...	424	18	406	...	...	300	...
Other water users.....water users...	10	3	7	...	...	10	...
TYPE OF SERVICE, 1959								
All water directly from surface and ground								
water sources.....organizations...	332	269	62	1	...	3	...	
Total water conveyed.....acre-feet...	1,131,172	376,513	(D)	(D)	...	491,594	...	
Water delivered.....acre-feet...	937,458	319,204	(D)	(D)	...	385,553	...	
To farm and residential users								
only.....organizations...	325	268	56	1	...	1	...	
To farm and residential users and other	522,034	318,691	(D)	(D)	...	4,050	...	
Irrigation organizations.....organizations...	6	1	5	...	...	2	...
Water to farm and residential								
users.....acre-feet...	383,948	213	383,735	...	...	373,729	...
Water to other irrigation								
organizations.....acre-feet...	30,806	300	30,506	...	...	7,774	...
To other irrigation organizations								
only.....organizations...	1	...	1	...	...	...	...
acre-feet...	670	...	670	...	...	...	...
Part of water from other								
organizations.....organizations...	12	7	5	...	...	...	...
Total water conveyed.....acre-feet...	21,427	5,637	15,790	...	...	...	...
From surface and ground water								
sources.....acre-feet...	16,130	4,978	11,552	...	...	...	...
From other irrigation organizations.....acre-feet...	5,297	1,028	4,238	...	...	...	...
Water delivered.....acre-feet...	18,652	4,740	13,912	...	...	...	...
To farm and residential users								
only.....organizations...	10	7	3	...	...	...	...
To farm and residential users and other	10,074	4,740	5,334	...	...	...	...
Irrigation organizations.....organizations...	2	...	2	...	...	...	...
Water to farm and residential								
users.....acre-feet...	6,168	...	6,168	...	...	...	...
Water to other irrigation								
organizations.....acre-feet...	2,410	...	2,410	...	...	...	...
To other irrigation organizations								
only.....organizations...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
All of water from other organizations.....organizations...	8	3	5	...	...	...	...
Total water conveyed.....acre-feet...	35,095	13,562	21,533	...	...	...	...
Water delivered.....acre-feet...	32,946	12,897	20,049	...	...	...	...
To farm and residential users								
only.....organizations...	7	2	5	...	...	...	...
To farm and residential users and other	25,945	5,856	20,089	...	...	...	...
Irrigation organizations.....organizations...	1	1	...	...	...	...	...
Water to farm and residential								
users.....acre-feet...	495	495	...	...	...	495	...
Water to other irrigation								
organizations.....acre-feet...	6,506	6,506	...	...	...	...	...
To other irrigation organizations								
only.....organizations...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
No water conveyed.....organizations...	7	4	3	...	...	...	...
WATER FROM OTHER SOURCES								
Organizations reporting no water from other								
sources used on the land served by the								
organization.....organizations...	278	223	54	1	...	3	...	
acres served...	239,110	81,534	(D)	(D)	...	90,411	...	
acres irrigated...	214,550	73,037	(D)	(D)	...	81,095	...	
water delivered to farms (acre-feet)...	893,020	307,462	(D)	(D)	...	374,879	...	
acre-feet per acre...	4.2	4.2	(D)	(D)	...	4.6	...	
Organizations reporting water from other								
sources used on land served by the								
organization.....organizations...	73	56	17	...	...	...	...
acres served...	36,159	11,779	24,369	...	...	...	...
acres irrigated...	23,351	9,143	14,208	...	...	...	...
water delivered to farms (acre-feet)...	52,297	22,162	30,095	...	...	...	...
acre-feet per acre...	2.2	2.4	2.1	...	...	...	...
NEW CAPITAL INVESTMENT, 1950-1959								
Expenditures for additional new works and								
equipment for irrigation and drainage,								
January 1, 1950-December 31, 1959.....organizations...	195	155	40	...	...	2	...
By U. S. B. R. ....dollars...				...	...		...
By water users organizations.....dollars...	717,818	228,331	489,487	...	...	247,250	...

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

Item (For definitions and explanations, see text)		Gunnison River (IV-F)						
		All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other
			Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users	
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959								
Total entering conveyance systems.....	organizations... 352 acre-feet... 1,147,302	279	72 (D)	1 (D)	...	3 491,594	...	
From another drainage basin.....	organizations... 1 acre-feet... 1,292	...	1 1,292	...	...	...	...
From drainage basin.....	D. B. No. ....	...	...	...	...	...	...
From sources within basin.....	organizations... 343 acre-feet... 1,146,010	276 381,091	66 (D)	1 (D)	...	3 491,594	...	
Surface water.....	organizations... 341 acre-feet... 1,145,846	274 380,927	66 (D)	1 (D)	...	3 491,594	...	
Ground water.....	organizations... 2 acre-feet... 164	...	...	...	...	...	...
From other organizations in the basin.....	organizations receiving... 20 acre-feet... 40,392	10 14,621	10 25,771	...	...	...	...
Total leaving conveyance systems.....	organizations... 352 acre-feet... 1,147,302	279 388,906	72 (D)	1 (D)	...	3 483,820	...	
Conveyance loss in basin.....	organizations... 334 acre-feet... 194,536	264 58,911	69 (D)	1 (D)	...	3 106,041	...	
Conveyed to another drainage basin.....	organizations... .. acre-feet... ..	...	...	...	...	...	...
To drainage basin number.....	D. B. No. ....	...	...	...	...	...	...
Delivered for use in the basin.....	organizations... 351 acre-feet... 952,766	279 329,995	71 (D)	1 (D)	...	3 377,779	...	
To farm irrigation water users.....	organizations... 351 acre-feet... 945,046	279 329,624	71 (D)	1 (D)	...	3 374,879	...	
To domestic water users.....	organizations... 10 acre-feet... 3,618	4 371	6 3,247	...	...	1 2,900	...
For other use.....	organizations... 5 acre-feet... 4,102	...	5 4,102	...	...	...	...
Delivered to other irrigation organizations.....	organizations delivering... 10 acre-feet... 40,392	2 6,806	8 33,586	...	...	2 7,774	...
SIZE OF ORGANIZATION, 1959								
Size of organization (number of farm irrigation water users):								
None.....	organizations... 12	8	(D)	(D)	...	...	...
1 to 3 water users.....	organizations... 186	182	(D)	(D)	...	...	...
4 to 9 water users.....	organizations... 108	83	(D)	(D)	...	...	...
10 to 29 water users.....	organizations... 35	9	(D)	(D)	...	...	...
30 to 99 water users.....	organizations... 13	1	(D)	(D)	...	1	...	
100 to 299 water users.....	organizations... 4	...	(D)	(D)	...	1	...	
300 to 999 water users.....	organizations... 1	...	(D)	(D)	...	1	...	
1,000 or more water users.....	organizations... ..	...	...	(D)	...	1	...
Size of organization (acre-feet of water delivered directly to farms):								
None.....	organizations... 8	4	(D)	(D)	...	...	...
1 to 299 acre-feet.....	organizations... 101	94	(D)	(D)	...	...	...
300 to 999 acre-feet.....	organizations... 105	87	(D)	(D)	...	...	...
1,000 to 2,999 acre-feet.....	organizations... 36	31	(D)	(D)	...	...	...
3,000 to 9,999 acre-feet.....	organizations... 49	37	(D)	(D)	...	1	...	
10,000 to 29,999 acre-feet.....	organizations... 9	...	(D)	(D)	...	...	...
30,000 to 99,999 acre-feet.....	organizations... ..	...	...	(D)	...	1	...
100,000 or more acre-feet.....	organizations... 1	...	(D)	(D)	...	...	...
Size of organization (acre-feet of water conveyed):								
None.....	organizations... 7	4	(D)	(D)	...	...	...
1 to 299 acre-feet.....	organizations... 94	88	(D)	(D)	...	...	...
300 to 999 acre-feet.....	organizations... 99	82	(D)	(D)	...	...	...
1,000 to 2,999 acre-feet.....	organizations... 85	66	(D)	(D)	...	1	...	
3,000 to 9,999 acre-feet.....	organizations... 61	42	(D)	(D)	...	...	...
10,000 to 29,999 acre-feet.....	organizations... 12	1	(D)	(D)	...	1	...	
30,000 to 99,999 acre-feet.....	organizations... ..	...	...	(D)	...	...	...
100,000 or more acre-feet.....	organizations... 1	...	(D)	(D)	...	1	...	

D Data not shown to avoid disclosure of information for individual organizations.
NA Not available.

State Table 4—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

Item (For definitions and explanations, see text)	Rio Grande above Fort Quitman, Texas (V-C)						
	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users	
Irrigation organizations.....organizations 1959...	203	124	75	3	1	...	..
1949...	304	204	93	5	1	NA	..
Service area, 1959:							
Area served, as reported							
by organizations.....acres...	573,350	94,377	440,913	38,060	...	...	..
Area irrigated, as reported							
by organizations.....acres...	419,622	76,603	304,959	38,060	...	...	..
Water users served, 1959, total.....water users...	3,425	627	2,609	189	...	...	..
Farm irrigation water users.....water users...	3,278	627	2,462	189	...	...	..
Residential water users.....water users...	147	...	147	...	...	...	..
Other water users.....water users...	...	...	...	...	...	...	..
TYPE OF SERVICE, 1959							
All water directly from surface and ground							
water sources.....organizations...	183	116	65	2	...	...	..
Total water conveyed.....acre-feet...	679,547	134,182	500,449	24,916	...	...	..
Water delivered.....acre-feet...	551,414	137,337	391,974	22,103	...	...	..
To farm and residential users							
only.....organizations...	171	115	54	2	...	...	..
acre-feet...	423,491	135,194	266,194	22,103	...	...	..
To farm and residential users and other							
irrigation organizations.....organizations...	11	1	10	...	...	...	..
Water to farm and residential							
users.....acre-feet...	71,747	2,048	69,699	...	...	...	..
Water to other irrigation							
organizations.....acre-feet...	34,982	95	34,887	...	...	...	..
To other irrigation organizations							
only.....organizations...	1	...	1	...	...	...	..
acre-feet...	21,194	...	21,194	...	...	...	..
Part of water from other							
organizations.....organizations...	5	1	4	...	...	...	..
Total water conveyed.....acre-feet...	37,318	1,350	35,968	...	...	...	..
From surface and ground water							
sources.....acre-feet...	13,495	975	12,520	...	...	...	..
From other irrigation organizations.....acre-feet...	23,823	375	23,448	...	...	...	..
Water delivered.....acre-feet...	34,079	1,200	32,879	...	...	...	..
To farm and residential users							
only.....organizations...	5	1	4	...	...	...	..
acre-feet...	34,079	1,200	32,879	...	...	...	..
To farm and residential users and other							
irrigation organizations.....organizations...	...	...	...	...	...	...	..
Water to farm and residential							
users.....acre-feet...	...	...	...	...	...	...	..
Water to other irrigation							
organizations.....acre-feet...	...	...	...	...	...	...	..
To other irrigation organizations							
only.....organizations...	...	...	...	...	...	...	..
acre-feet...	...	...	...	...	...	...	..
All of water from other organizations.....organizations...	12	7	5	...	...	...	..
Total water conveyed.....acre-feet...	32,353	10,226	22,127	...	...	...	..
Water delivered.....acre-feet...	26,426	9,047	17,379	...	...	...	..
To farm and residential users							
only.....organizations...	12	7	5	...	...	...	..
acre-feet...	26,426	9,047	17,379	...	...	...	..
To farm and residential users and other							
irrigation organizations.....organizations...	...	...	...	...	...	...	..
Water to farm and residential							
users.....acre-feet...	...	...	...	...	...	...	..
Water to other irrigation							
organizations.....acre-feet...	...	...	...	...	...	...	..
To other irrigation organizations							
only.....organizations...	...	...	...	...	...	...	..
acre-feet...	...	...	...	...	...	...	..
No water conveyed.....organizations...	3	...	1	1	1	...	..
WATER FROM OTHER SOURCES							
Organizations reporting no water from other							
sources used on the land served by the							
organization.....organizations...	134	80	52	2	...	...	..
acres served...	347,810	39,029	270,721	38,060	...	...	..
acres irrigated...	296,654	34,658	223,939	38,060	...	...	..
water delivered to farms (acre-feet)...	382,120	86,538	273,479	22,103	...	...	..
acre-feet per acre...	1.3	2.5	1.2	0.6	...	...	..
Organizations reporting water from other							
sources used on land served by the							
organization.....organizations...	65	44	21	...	...	...	..
acres served...	225,540	55,348	170,192	...	...	...	..
acres irrigated...	122,968	41,945	81,023	...	...	...	..
water delivered to farms (acre-feet)...	171,973	60,951	111,022	...	...	...	..
acre-feet per acre...	1.4	1.5	1.4	...	...	...	..
NEW CAPITAL INVESTMENT, 1950-1959							
Expenditures for additional new works and							
equipment for irrigation and drainage,							
January 1, 1950-December 31, 1959.....organizations...	104	66	35	2	1	...	..
By U. S. B. R.....dollars...	2,322,000	...	...	...	2,322,000	...	..
By water users organizations.....dollars...	674,833	80,863	353,970	240,000	...	...	..

See footnote at end of table.

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

Item (For definitions and explanations, see text)	Rio Grande above Fort Quitman, Texas (V-C)						
	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other
		Unincorporated	Incorporated		Projects and storage systems created by bureau	Operated by water users	
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
Total entering conveyance systems.....organizations...	200	124	74	2	...	...	...
acre-feet.....	693,042	155,157	512,969	24,916	...	...	...
From another drainage basin.....organizations...	...	...	...	...	...	...	...
From drainage basin.....D. B. No.....	...	...	...	...	...	...	...
From sources within basin.....organizations...	188	117	69	2	...	...	...
acre-feet.....	693,042	155,157	512,969	24,916	...	...	...
Surface water.....organizations...	184	115	67	2	...	...	...
acre-feet.....	677,934	150,997	502,021	24,916	...	...	...
Ground water.....organizations...	9	5	4	...	...	...	...
acre-feet.....	15,108	4,160	10,948	...	...	...	...
From other organizations in the basin.....organizations receiving...	17	8	9	...	...	...	...
acre-feet.....	56,176	10,601	45,575	...	...	...	...
Total leaving conveyance systems.....organizations...	200	124	74	2	...	...	...
acre-feet.....	693,042	155,663	502,463	24,916	...	...	...
Conveyance loss in basin.....organizations...	185	111	72	2	...	...	...
acre-feet.....	137,299	18,174	116,312	2,813	...	...	...
Conveyed to another drainage basin.....organizations...	...	...	...	...	...	...	...
acre-feet.....	...	...	...	...	...	...	...
To drainage basin number.....D. B. No.....	...	...	...	...	...	...	...
Delivered for use in the basin.....organizations...	199	124	73	2	...	...	...
acre-feet.....	555,743	147,489	386,151	22,103	...	...	...
To farm irrigation water users.....organizations...	199	124	73	2	...	...	...
acre-feet.....	554,093	147,489	384,501	22,103	...	...	...
To domestic water users.....organizations...	2	...	2	...	...	...	...
acre-feet.....	1,650	...	1,650	...	...	...	...
For other use.....organizations...	...	...	...	...	...	...	...
acre-feet.....	...	...	...	...	...	...	...
Delivered to other irrigation organizations.....organizations delivering...	12	1	11	...	...	...	...
acre-feet.....	56,176	95	56,081	...	...	...	...
SIZE OF ORGANIZATION, 1959							
Size of organization (number of farm irrigation water users):							
None.....organizations...	7	2	3	1	1	...	...
1 to 3 water users.....organizations...	62	58	4	...	...	...	...
4 to 9 water users.....organizations...	79	52	26	1	...	...	...
10 to 29 water users.....organizations...	28	11	17	...	...	...	...
30 to 99 water users.....organizations...	21	1	20	...	...	...	...
100 to 299 water users.....organizations...	5	...	4	1	...	...	...
300 to 999 water users.....organizations...	1	...	1	...	...	...	...
1,000 or more water users.....organizations...	...	...	...	...	...	...	...
Size of organization (acre-feet of water delivered directly to farms):							
None.....organizations...	4	...	2	1	1	...	...
1 to 299 acre-feet.....organizations...	43	28	15	...	...	...	...
300 to 999 acre-feet.....organizations...	73	57	15	1	...	...	...
1,000 to 2,999 acre-feet.....organizations...	38	29	9	...	...	...	...
3,000 to 9,999 acre-feet.....organizations...	34	10	24	...	...	...	...
10,000 to 29,999 acre-feet.....organizations...	10	...	9	1	...	...	...
30,000 to 99,999 acre-feet.....organizations...	1	...	1	...	...	...	...
100,000 or more acre-feet.....organizations...	...	...	...	...	...	...	...
Size of organization (acre-feet of water conveyed):							
None.....organizations...	3	...	1	1	1	...	...
1 to 299 acre-feet.....organizations...	38	27	11	...	...	...	...
300 to 999 acre-feet.....organizations...	74	56	18	...	...	...	...
1,000 to 2,999 acre-feet.....organizations...	35	27	7	1	...	...	...
3,000 to 9,999 acre-feet.....organizations...	38	14	24	...	...	...	...
10,000 to 29,999 acre-feet.....organizations...	13	...	12	...	...	...	...
30,000 to 99,999 acre-feet.....organizations...	1	...	1	...	...	...	...
100,000 or more acre-feet.....organizations...	1	...	1	...	...	...	...

NA Not available.

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

Item (For definitions and explanations, see text)	Arkansas River (VI-B)						
	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users	
Irrigation organizations.....organizations 1959...	319	214	104	...	...	...	1
Service area, 1959:	427	326	97	2	...	NA	2
Area served, as reported							
by organizations.....acres...	475,714	62,992	(D)	...	...	...	(D)
Area irrigated, as reported							
by organizations.....acres...	431,485	54,120	(D)	...	...	...	(D)
Water users served, 1959, total.....water users...	8,179	1,414	(D)	...	...	...	(D)
Farm irrigation water users.....water users...	6,905	977	(D)	...	...	...	(D)
Residential water users.....water users...	1,205	433	(D)	...	...	...	(D)
Other water users.....water users...	69	4	(D)	...	...	...	(D)
TYPE OF SERVICE, 1959							
All water directly from surface and ground							
water sources.....organizations...	271	213	57	...	...	...	1
Total water conveyed.....acre-feet...	1,188,787	190,083	(D)	...	...	...	(D)
Water delivered.....acre-feet...	954,620	162,117	(D)	...	...	...	(D)
To farm and residential users							
only.....organizations...	259	211	47	...	...	...	1
.....acre-feet...	572,717	155,948	(D)	...	...	...	(D)
To farm and residential users and other							
irrigation organizations.....organizations...	12	2	10	...	...	...	...
Water to farm and residential							
users.....acre-feet...	229,382	753	228,629	...	...	...	...
Water to other irrigation							
organizations.....acre-feet...	152,721	5,416	147,305	...	...	...	...
To other irrigation organizations							
only.....organizations...	...	...	...	...	...	...	...
.....acre-feet...	...	...	...	...	...	...	...
Part of water from other							
organizations.....organizations...	2	...	2	...	...	...	...
Total water conveyed.....acre-feet...	147,735	...	147,735	...	...	...	...
From surface and ground water							
sources.....acre-feet...	124,558	...	124,558	...	...	...	...
From other irrigation organizations.....acre-feet...	23,177	...	23,177	...	...	...	...
Water delivered.....acre-feet...	121,175	...	121,175	...	...	...	...
To farm and residential users							
only.....organizations...	...	...	...	...	...	...	...
.....acre-feet...	...	...	...	...	...	...	...
To farm and residential users and other							
irrigation organizations.....organizations...	2	...	2	...	...	...	...
Water to farm and residential							
users.....acre-feet...	68,229	...	68,229	...	...	...	...
Water to other irrigation							
organizations.....acre-feet...	52,946	...	52,946	...	...	...	...
To other irrigation organizations							
only.....organizations...	...	...	...	...	...	...	...
.....acre-feet...	...	...	...	...	...	...	...
All of water from other organizations.....organizations...	44	1	43	...	...	...	...
Total water conveyed.....acre-feet...	182,490	96	182,394	...	...	...	...
Water delivered.....acre-feet...	163,203	91	163,112	...	...	...	...
To farm and residential users							
only.....organizations...	44	1	43	...	...	...	...
.....acre-feet...	163,203	91	163,112	...	...	...	...
To farm and residential users and other							
irrigation organizations.....organizations...	...	...	...	...	...	...	...
Water to farm and residential							
users.....acre-feet...	...	...	...	...	...	...	...
Water to other irrigation							
organizations.....acre-feet...	...	...	...	...	...	...	...
To other irrigation organizations							
only.....organizations...	...	...	...	...	...	...	...
.....acre-feet...	...	...	...	...	...	...	...
No water conveyed.....organizations...	2	...	2	...	...	...	...
WATER FROM OTHER SOURCES							
Organizations reporting no water from other							
sources used on the land served by the							
organization.....organizations...	294	200	93	...	...	...	1
.....acres served...	390,771	57,696	(D)	...	...	...	(D)
.....acres irrigated...	354,102	49,654	(D)	...	...	...	(D)
water delivered to farms (acre-feet)...	621,883	134,218	(D)	...	...	...	(D)
.....acre-feet per acre...	2.3	2.7	(D)	...	...	...	(D)
Organizations reporting water from other							
sources used on land served by the							
organization.....organizations...	23	14	9	...	...	...	...
.....acres served...	84,943	5,296	79,647	...	...	...	...
.....acres irrigated...	77,383	4,466	72,917	...	...	...	...
water delivered to farms (acre-feet)...	207,479	20,690	186,789	...	...	...	...
.....acre-feet per acre...	2.7	4.6	2.6	...	...	...	...
NEW CAPITAL INVESTMENT, 1950-1959							
Expenditures for additional new works and							
equipment for irrigation and drainage,							
January 1, 1950-December 31, 1959.....organizations...	121	77	44	...	...	...	...
By U. S. B. R.....dollars...	...	...	...	...	...	...	...
By water users organizations.....dollars...	2,304,051	249,745	2,054,306	...	...	...	...

See footnotes at end of table.

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

Item (For definitions and explanations, see text)	Arkansas River (VI-B)						
	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users	
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
Total entering conveyance systems.....organizations...	317	214	102	...	...	...	(D)
acre-feet...	1,313,345	190,083	(D)	...	...	...	(D)
From another drainage basin.....organizations...	2	...	2	...	...	...	...
acre-feet...	45,528	...	45,528	...	...	...	...
From drainage basin.....D. B. No....	...	...	...	...	...	...	...
From sources within basin.....organizations...	273	213	59	...	...	...	1
acre-feet...	1,267,817	190,083	(D)	...	...	...	(D)
Surface water.....organizations...	271	211	59	...	...	...	1
acre-feet...	1,264,822	189,348	(D)	...	...	...	(D)
Ground water.....organizations...	5	2	3	...	...	...	...
acre-feet...	2,995	735	2,260	...	...	...	...
From other organizations in the basin.....organizations receiving...	46	1	45	...	...	...	...
acre-feet...	205,667	96	205,571	...	...	...	...
Total leaving conveyance systems.....organizations...	317	214	102	...	...	...	(D)
acre-feet...	1,313,345	184,763	(D)	...	...	...	(D)
Conveyance loss in basin.....organizations...	293	194	98	...	...	...	(D)
acre-feet...	203,088	25,691	(D)	...	...	...	(D)
Conveyed to another drainage basin.....organizations...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
To drainage basin number.....D. B. No....	...	...	...	...	...	...	...
Delivered for use in the basin.....organizations...	317	214	102	...	...	...	(D)
acre-feet...	1,110,297	159,072	(D)	...	...	...	(D)
To farm irrigation water users.....organizations...	317	214	102	...	...	...	(D)
acre-feet...	1,029,362	154,908	(D)	...	...	...	(D)
To domestic water users.....organizations...	14	10	...	...	...	...	...
acre-feet...	4,169	1,884	2,285	...	...	...	...
For other use.....organizations...	8	2	5	...	...	...	(D)
acre-feet...	76,726	2,280	(D)	...	...	...	(D)
Delivered to other irrigation organizations.....organizations delivering...	14	2	12	...	...	...	...
acre-feet...	205,667	5,416	200,251	...	...	...	...
SIZE OF ORGANIZATION, 1959							
Size of organization (number of farm irrigation water users):							
None.....organizations...	3	1	(D)	...	...	...	(D)
1 to 3 water users.....organizations...	137	132	(D)	...	...	...	(D)
4 to 9 water users.....organizations...	92	71	(D)	...	...	...	(D)
10 to 29 water users.....organizations...	47	8	(D)	...	...	...	(D)
30 to 99 water users.....organizations...	23	2	(D)	...	...	...	(D)
100 to 299 water users.....organizations...	11	...	(D)	...	...	...	(D)
300 to 999 water users.....organizations...	6	...	(D)	...	...	...	(D)
1,000 or more water users.....organizations...	...	...	...	...	...	...	...
Size of organization (acre-feet of water delivered directly to farms):							
None.....organizations...	2	...	(D)	...	...	...	(D)
1 to 299 acre-feet.....organizations...	115	109	(D)	...	...	...	(D)
300 to 999 acre-feet.....organizations...	82	71	(D)	...	...	...	(D)
1,000 to 2,999 acre-feet.....organizations...	60	27	(D)	...	...	...	(D)
3,000 to 9,999 acre-feet.....organizations...	41	5	(D)	...	...	...	(D)
10,000 to 29,999 acre-feet.....organizations...	12	2	(D)	...	...	...	(D)
30,000 to 99,999 acre-feet.....organizations...	6	...	(D)	...	...	...	(D)
100,000 or more acre-feet.....organizations...	1	...	(D)	...	...	...	(D)
Size of organization (acre-feet of water conveyed):							
None.....organizations...	2	...	(D)	...	...	...	(D)
1 to 299 acre-feet.....organizations...	104	98	(D)	...	...	...	(D)
300 to 999 acre-feet.....organizations...	74	68	(D)	...	...	...	(D)
1,000 to 2,999 acre-feet.....organizations...	71	36	(D)	...	...	...	(D)
3,000 to 9,999 acre-feet.....organizations...	44	10	(D)	...	...	...	(D)
10,000 to 29,999 acre-feet.....organizations...	14	2	(D)	...	...	...	(D)
30,000 to 99,999 acre-feet.....organizations...	8	...	(D)	...	...	...	(D)
100,000 or more acre-feet.....organizations...	2	...	(D)	...	...	...	(D)

D Data not shown to avoid disclosure of information for individual organizations.

NA Not available.

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

Item (For definitions and explanations, see text)	Platte River excluding South Platte River (VI-D)						
	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users	
Irrigation organizations.....organizations 1959...	71	66	4	...	...	...	1
Service area, 1959:	81	78	...	...	...	NA	3
Area served, as reported							
by organizations.....acres...	65,265	58,165	7,100	...	...	...	...
Area irrigated, as reported							
by organizations.....acres...	64,865	57,765	7,100	...	...	...	...
Water users served, 1959, total.....water users...	169	159	10	...	...	...	...
Farm irrigation water users.....water users...	169	159	10	...	...	...	...
Residential water users.....water users...	...	...	...	...	...	...	...
Other water users.....water users...	...	...	...	...	...	...	...
TYPE OF SERVICE, 1959							
All water directly from surface and ground							
water sources.....organizations...	70	66	3	...	...	...	1
Total water conveyed.....acre-feet...	355,037	290,188	(D)	...	...	...	(D)
Water delivered.....acre-feet...	280,019	243,499	36,520	...	...	...	...
To farm and residential users							
only.....organizations...	68	66	2	...	...	...	...
acre-feet...	280,019	243,499	36,520	...	...	...	...
To farm and residential users and other							
irrigation organizations.....organizations...	...	...	...	...	...	...	...
Water to farm and residential							
users.....acre-feet...	...	...	...	...	...	...	...
Water to other irrigation							
organizations.....acre-feet...	...	...	...	...	...	...	...
To other irrigation organizations							
only.....organizations...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
Part of water from other							
organizations.....organizations...	1	...	1	...	...	...	...
Total water conveyed.....acre-feet...	1,575	...	1,575	...	...	...	...
From surface and ground water							
sources.....acre-feet...	1,575	...	1,575	...	...	...	...
From other irrigation organizations.....acre-feet...	...	...	...	...	...	...	...
Water delivered.....acre-feet...	...	...	...	...	...	...	...
To farm and residential users							
only.....organizations...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
To farm and residential users and other							
irrigation organizations.....organizations...	1	...	1	...	...	...	...
Water to farm and residential							
users.....acre-feet...	...	...	...	...	...	...	...
Water to other irrigation							
organizations.....acre-feet...	...	...	...	...	...	...	...
To other irrigation organizations							
only.....organizations...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
All of water from other organizations.....organizations...	...	...	...	...	...	...	...
Total water conveyed.....acre-feet...	...	...	...	...	...	...	...
Water delivered.....acre-feet...	...	...	...	...	...	...	...
To farm and residential users							
only.....organizations...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
To farm and residential users and other							
irrigation organizations.....organizations...	...	...	...	...	...	...	...
Water to farm and residential							
users.....acre-feet...	...	...	...	...	...	...	...
Water to other irrigation							
organizations.....acre-feet...	...	...	...	...	...	...	...
To other irrigation organizations							
only.....organizations...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
No water conveyed.....organizations...	...	...	...	...	...	...	...
WATER FROM OTHER SOURCES							
Organizations reporting no water from other							
sources used on the land served by the							
organization.....organizations...	62	60	2	...	...	...	...
acres served...	58,925	51,325	7,100	...	...	...	...
acres irrigated...	58,925	51,425	7,100	...	...	...	...
water delivered to farms (acre-feet)...	260,683	224,163	36,520	...	...	...	...
acre-feet per acre...	4.4	4.3	5.1	...	...	...	...
Organizations reporting water from other							
sources used on land served by the							
organization.....organizations...	7	6	1	...	...	...	...
acres served...	34,000	6,340	27,660	...	...	...	...
acres irrigated...	33,340	6,340	27,000	...	...	...	...
water delivered to farms (acre-feet)...	58,060	19,336	38,724	...	...	...	...
acre-feet per acre...	1.7	3.0	1.4	...	...	...	...
NEW CAPITAL INVESTMENT, 1950-1959							
Expenditures for additional new works and							
equipment for irrigation and drainage,							
January 1, 1950-December 31, 1959.....organizations...	35	33	1	...	...	...	1
By U. S. B. R.....dollars...	...	...	...	...	...	...	...
By water users organizations.....dollars...	64,605	38,590	(D)	...	...	...	(D)

See footnotes at end of table.

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

Item (For definitions and explanations, see text)	Platte River excluding South Platte River (VI-D)						
	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users	
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
Total entering conveyance systems.....organizations... 							

D Data not shown to avoid disclosure of information for individual organizations.

NA Not available.

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

Item (For definitions and explanations, see text)	South Platte River above Gaging Station near Paxton, Nebraska (VI-E)						
	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users	
Irrigation organizations.....organizations 1959...	409	101	294	6	1	1	7
1949...	452	124	314	5	1	NA	8
Service area, 1959:							
Area served, as reported							
by organizations.....acres...	1,138,844	62,491	942,004	115,091	...	(D)	19,258
Area irrigated, as reported							
by organizations.....acres...	1,059,057	59,072	880,676	105,897	...	(D)	13,412
Water users served, 1959, total.....water users...	16,175	1,397	12,310	894	...	(D)	1,574
Farm irrigation water users.....water users...	12,520	896	10,212	887	...	(D)	525
Residential water users.....water users...	3,602	492	2,063	5	...	...	1,042
Other water users.....water users...	53	9	35	2	...	(D)	7
TYPE OF SERVICE, 1959							
All water directly from surface and ground							
water sources.....organizations...	231	68	155	2	1	...	5
Total water conveyed.....acre-feet...	1,931,609	101,270	1,408,166	118,210	268,580	...	35,423
Water delivered.....acre-feet...	1,553,771	85,231	1,116,326	63,459	268,580	...	20,175
To farm and residential users							
only.....organizations...	191	65	120	2	...	...	4
acre-feet...	573,774	63,871	429,270	63,459	...	...	17,174
To farm and residential users and other							
irrigation organizations.....organizations...	33	2	30	...	...	...	1
Water to farm and residential							
users.....acre-feet...	341,430	4,610	333,924	...	...	...	2,896
Water to other irrigation							
organizations.....acre-feet...	234,642	11,166	223,371	...	...	...	105
To other irrigation organizations							
only.....organizations...	7	1	5	...	1	...	...
acre-feet...	403,925	5,584	129,761	...	268,580	...	...
Part of water from other							
organizations.....organizations...	43	5	35	2	...	1	1
Total water conveyed.....acre-feet...	698,744	4,198	648,203	45,813	...	(D)	530
From surface and ground water							
sources.....acre-feet...	232,530	1,053	460,574	1,228,997	...	(D)	1,100
From other irrigation organizations.....acre-feet...	466,214	3,145	187,629	276,810	...	(D)	630
Water delivered.....acre-feet...	604,713	3,890	566,047	34,376	...	(D)	400
To farm and residential users							
only.....organizations...	25	5	19	...	...	...	1
acre-feet...	149,191	3,890	144,901	...	...	...	400
To farm and residential users and other							
irrigation organizations.....organizations...	15	...	13	2	...	1	...
Water to farm and residential							
users.....acre-feet...	193,689	...	179,430	14,259	...	(D)	...
Water to other irrigation							
organizations.....acre-feet...	233,197	...	213,040	20,117	...	(D)	...
To other irrigation organizations							
only.....organizations...	2	...	2	...	...	...	...
acre-feet...	28,676	...	28,676	...	...	...	...
All of water from other organizations.....organizations...	128	28	99	1	...	...	...
Total water conveyed.....acre-feet...	491,862	31,926	407,106	52,830	...	...	...
Water delivered.....acre-feet...	434,771	28,321	377,432	29,018	...	...	...
To farm and residential users							
only.....organizations...	113	26	86	1	...	...	...
acre-feet...	313,036	20,350	263,668	29,018	...	...	...
To farm and residential users and other							
irrigation organizations.....organizations...	15	2	13	...	...	...	...
Water to farm and residential							
users.....acre-feet...	65,976	6,889	59,087	...	...	...	...
Water to other irrigation							
organizations.....acre-feet...	55,759	1,082	54,677	...	...	...	...
To other irrigation organizations							
only.....organizations...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
No water conveyed.....organizations...	7	...	5	1	...	...	1
WATER FROM OTHER SOURCES							
Organizations reporting no water from other							
sources used on the land served by the							
organization.....organizations...	195	53	137	4	...	1	4
acres served.....acres irrigated...	464,479	30,983	339,449	93,647	...	(D)	19,558
water delivered to farms (acre-feet)...	430,430	29,832	314,985	85,193	...	(D)	10,112
acres irrigated.....acres irrigated...	710,789	53,293	579,438	77,708	...	(D)	9,637
acres-feet per acre...	1.6	1.8	1.8	0.9	...	(D)	1.0
Organizations reporting water from other							
sources used on land served by the							
organization.....organizations...	192	46	144	1	...	...	2
acres served.....acres irrigated...	657,327	31,508	604,275	21,444	...	...	3,300
water delivered to farms (acre-feet)...	617,435	29,220	567,411	20,704	...	...	3,300
acres irrigated.....acres irrigated...	893,437	41,907	822,262	29,018	...	...	3,230
acres-feet per acre...	1.4	1.4	1.4	1.4	...	...	1.0
NEW CAPITAL INVESTMENT, 1950-1959							
Expenditures for additional new works and							
equipment for irrigation and drainage,							
January 1, 1950-December 31, 1959.....organizations...	101	19	76	2	1	1	3
By U. S. B. R.....dollars...	29,905,197	...	...	13,410,358	16,494,839	(D)	...
By water users organizations.....dollars...	2,122,674	64,214	1,743,252	235,688	...	234,688	79,520

See footnotes at end of table.

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

Item (For definitions and explanations, see text)	South Platte River above Gaging Station near Paxton, Nebraska (VI-E)						
	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users	
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
Total entering conveyance systems.....organizations... acre-feet.....	404 2,166,056	101 102,223	290 1,870,657	5 1-110,787	1 268,580	1 (D)	7 35,578
From another drainage basin.....organizations... acre-feet.....	5 309,145	... ...	3 38,464	... ...	1 268,580	... ...	... 2,101
From drainage basin.....D. B. No..... .....	... ...	... ...	... ...	... ...	... ...	... ...	... ...
From sources within basin.....organizations... acre-feet.....	275 1,856,911	73 102,223	191 1,832,193	4 1-110,787	... ...	1 (D)	7 33,282
Surface water.....organizations... acre-feet.....	274 1,844,421	72 102,073	191 1,823,493	4 1-110,787	... ...	1 (D)	7 29,642
Ground water.....organizations... acre-feet.....	6 12,490	1 150	3 8,700	... ...	... ...	... ...	2 3,640
From other organizations in the basin.....organizations receiving... acre-feet.....	171 956,159	33 35,071	134 592,818	3 327,640	... ...	1 (D)	... 630
Total leaving conveyance systems.....organizations... acre-feet.....	404 2,166,056	101 119,462	290 1,813,950	5 196,726	1 ...	1 (D)	7 35,908
Conveyance loss in basin.....organizations... acre-feet.....	346 464,282	96 17,391	238 348,229	5 88,862	... ...	1 (D)	7 9,800
Conveyed to another drainage basin.....organizations... acre-feet.....	1 3,492	... ...	1 3,492	......	......	......	......
To drainage basin number.....D. B. No..... .....	... ...	... ...	... ...	... ...	... ...	... ...	... ...
Delivered for use in the basin.....organizations... acre-feet.....	394 1,698,282	101 102,071	282 1,462,229	5 107,864	... ...	1 (D)	6 26,108
To farm irrigation water users.....organizations... acre-feet.....	389 1,613,641	99 95,200	279 1,398,848	5 106,726	... ...	1 (D)	6 12,867
To domestic water users.....organizations... acre-feet.....	75 23,455	24 4,410	46 11,432	1 10	... ...	... ...	... 7,603
For other use.....organizations... acre-feet.....	31 61,186	5 2,461	21 51,949	2 1,138	3 ...	3 (D)	... 5,638
Delivered to other irrigation organizations..... organizations delivering... acre-feet.....	72 956,159	5 17,832	63 649,525	2 20,117	1 268,580	1 (D)	... 105
SIZE OF ORGANIZATION, 1959							
Size of organization (number of farm irrigation water users):							
None.....organizations... 1 to 3 water users.....organizations... 4 to 9 water users.....organizations... 10 to 29 water users.....organizations... 30 to 99 water users.....organizations... 100 to 299 water users.....organizations... 300 to 999 water users.....organizations... 1,000 or more water users.....organizations...	22 56 94 134 74 24 5 ...	4 15 42 15 8	13 15 61 115 66 21 3 ...	1 1 ... 3 1 ...	1	(D) (D) (D) (D) (D) (D) (D) (D)	1 3
Size of organization (acre-feet of water delivered directly to farms):							
None.....organizations... 1 to 299 acre-feet.....organizations... 300 to 999 acre-feet.....organizations... 1,000 to 2,999 acre-feet.....organizations... 3,000 to 9,999 acre-feet.....organizations... 10,000 to 29,999 acre-feet.....organizations... 30,000 to 99,999 acre-feet.....organizations... 100,000 or more acre-feet.....organizations...	20 53 76 120 101 32 7 ...	2 33 30 32 4	15 19 44 86 95 29 6 ...	1 3 1	1	(D) (D) (D) (D) (D) (D) (D) (D)	1 ... 2 ... 2
Size of organization (acre-feet of water conveyed):							
None.....organizations... 1 to 299 acre-feet.....organizations... 300 to 999 acre-feet.....organizations... 1,000 to 2,999 acre-feet.....organizations... 3,000 to 9,999 acre-feet.....organizations... 10,000 to 29,999 acre-feet.....organizations... 30,000 to 99,999 acre-feet.....organizations... 100,000 or more acre-feet.....organizations...	8 41 69 110 117 43 21 2	... 28 31 31 10 1	6 13 79 103 37 18 1 ...	1 2 3 ... 1	... ... ... ... ... ... ... 1	(D) (D) (D) (D) (D) (D) (D) (D)	1 ... 1 ... 4

D Data not shown to avoid disclosure of information for individual organizations.

NA Not available.

Water was transferred to the basin and released to natural stream channels in excess of the quantity of surface water withdrawn by irrigation organizations. The net effect was to increase the available surface water supply in the basin or State.

State Table 5.—NUMBER OF IRRIGATION ORGANIZATIONS, TYPE OF SERVICE, NEW CAPITAL INVESTMENT,

Item (For definitions and explanations, see text)		Colorado, total				Colorado River direct, Plateau Creek, Roaring Fork, Eagle River, Blue River, Muddy Creek, and Fraser River (IV-D-1, 5-10)			
		Size of organization, by total water conveyed							
		0-999 acre-feet	1,000- 9,999 acre-feet	10,000- 99,999 acre-feet	100,000 or more acre-feet	0-999 acre-feet	1,000- 9,999 acre-feet	10,000- 99,999 acre-feet	100,000 or more acre-feet
1	Number of organizations.....organizations...	906	858	161	8	135	125	25	3
TYPE OF SERVICE									
2	All water directly from surface and ground sources.....organizations...	795	686	124	7	114	115	20	3
3	Total water conveyed.....acre-feet...	321,357	2,278,882	2,931,087	1,758,272	54,279	337,600	314,628	828,687
4	Water delivered.....acre-feet...	285,931	1,944,145	2,329,497	1,392,482	48,888	293,190	226,507	427,407
5	To farm and residential users only.....organizations...	789	655	87	1	113	113	19	...
6	To farm and residential users only.....acre-feet...	282,256	1,810,221	1,383,165	79,702	48,312	289,769	226,507	...
7	To farm and residential users and other irrigation organizations.....organizations...	3	27	33	4	...	...	1	2
8	Water to farm and residential users.....acre-feet...	865	82,779	480,834	782,813	...	...	...	288,640
9	Water to other irrigation organizations.....acre-feet...	666	40,916	368,597	208,557	...	...	...	138,767
10	To other irrigation organizations only.....organizations...	3	4	4	2	1	2	...	1
11	To other irrigation organizations only.....acre-feet...	2,144	10,229	96,901	321,410	576	3,421	...	...
12	Part of water from other organizations.....organizations...	31	36	22	1	14	8	3	...
13	Total water conveyed.....acre-feet...	14,086	139,131	757,194	121,635	5,926	17,696	97,631	...
14	From surface and ground water sources.....acre-feet...	1,716	76,842	231,070	106,458	4,534	15,162	8,642	...
15	From other irrigation organizations.....acre-feet...	12,370	62,289	526,124	15,177	1,392	2,534	88,989	...
16	Water delivered.....acre-feet...	12,174	126,320	637,199	98,815	5,212	15,349	54,131	...
17	To farm and residential users only.....organizations...	30	29	9	...	14	8	2	...
18	To farm and residential users only.....acre-feet...	12,174	90,845	186,214	...	5,212	15,349	54,131	...
19	To farm and residential users and other irrigation organizations.....organizations...	...	6	12	1	...	...	1	...
20	Water to farm and residential users.....acre-feet...	...	18,280	195,437	54,369	...	...	...	...
21	Water to other irrigation organizations.....acre-feet...	...	10,895	233,172	44,446	...	...	...	...
22	To other irrigation organizations only.....organizations...	...	1	1	...	...	...	...	...
23	To other irrigation organizations only.....acre-feet...	...	6,300	22,376	...	...	...	...	...
24	All of water from other organizations.....organizations...	54	136	15	...	5	2	2	...
25	Total water conveyed.....acre-feet...	25,281	490,016	301,137	...	857	6,525	45,987	...
26	Water delivered.....acre-feet...	21,922	439,222	295,260	...	763	5,221	35,746	...
27	To farm and residential users only.....organizations...	32	127	9	...	5	2	1	...
28	To farm and residential users only.....acre-feet...	21,189	395,492	142,819	...	763	5,221	7,978	...
29	To farm and residential users and other irrigation organizations.....organizations...	2	9	6	...	...	...	1	...
30	Water to farm and residential users.....acre-feet...	592	22,944	67,583	...	...	...	24,648	...
31	Water to other irrigation organizations.....acre-feet...	141	20,786	44,858	...	...	...	3,520	...
32	To other irrigation organizations only.....organizations...	...	...	...	...	...	...	...	...
33	To other irrigation organizations only.....acre-feet...	...	...	...	...	...	...	...	...
34	No water conveyed.....organizations...	26	...	...	...	2	...	...	...
WATER FROM OTHER SOURCES									
35	Organizations reporting 0 water from other sources used on land served by the organization.....organizations...	679	677	108	6	107	110	20	2
36	Water delivered.....acre-feet...	176,825	741,556	704,577	364,511	25,931	63,382	69,508	61,295
37	acres irrigated.....	131,531	667,453	649,103	334,696	22,038	59,594	67,665	60,795
38	Organizations reporting water from other sources used on land served by the organization.....organizations...	197	175	48	...	25	13	5	...
39	acres served.....	78,491	348,364	632,822	...	7,731	11,658	61,152	...
40	acres irrigated.....	55,258	297,708	541,021	...	6,033	10,598	57,492	...
NEW CAPITAL INVESTMENT, 1950-1959									
41	Expenditures for additional new works and equipment for irrigation and drainage, January 1, 1950-December 31, 1959.....organizations...	379	414	104	6	65	75	22	3
42	dollars.....	3,034,840	1,773,066	19,518,215	35,511,484	98,905	219,350	1,009,524	18,441,125
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959									
43	Total entering conveyance systems in basin.....organizations...	879	858	161	8	133	125	25	3
44	From another drainage basin.....acre-feet...	323,073	2,355,724	3,162,157	1,864,730	58,813	352,762	323,270	828,687
45	From another drainage basin.....organizations...	...	...	...	...	...	...	...	...
46	From another drainage basin.....D. B. No. ....	...	...	4,038	...	...	...	...	...
47	From Drainage Basin Number.....organizations...	826	722	145	8	128	123	23	3
48	From natural sources within basin.....acre-feet...	323,073	2,355,724	3,158,119	1,864,730	58,813	352,762	323,270	828,687
49	Surface water.....organizations...	819	720	145	8	128	123	23	3
50	Ground water.....acre-feet...	320,803	2,348,974	3,136,365	1,864,730	58,726	352,432	323,270	828,687
51	From other organizations in the basin.....organizations receiving...	9	10	5	...	1	1	...	...
52	acre-feet.....	2,270	7,150	21,754	...	87	330	...	...
53	From other organizations in the basin.....organizations receiving...	85	172	37	1	19	10	4	...
54	acre-feet.....	37,651	552,305	827,261	15,177	2,249	9,059	134,976	...
55	Total leaving conveyance systems.....organizations...	879	858	161	8	133	125	25	3
56	Conveyance loss in basin.....organizations...	357,773	2,818,903	3,223,514	1,305,494	60,486	358,400	454,726	689,920
57	Conveyance loss in basin.....acre-feet...	801	813	146	7	124	124	21	2
58	Conveyed to another drainage basin.....organizations...	39,498	367,346	640,477	386,610	6,199	46,503	77,733	132,700
59	Conveyed to another drainage basin.....acre-feet...	242	...	15,185	...	...	1,292	64,129	268,580
60	To drainage basin number.....D. B. No. ....	...	...	...	...	...	...	...	...
61	Delivered for use in the basin.....organizations...	876	853	156	8	132	123	22	2
62	Delivered for use in the basin.....acre-feet...	318,033	2,451,597	2,567,852	918,884	54,287	310,605	312,864	288,640
63	To farm irrigation water users.....organizations...	875	851	156	6	132	123	22	2
64	To residential water users.....organizations...	311,192	2,398,594	2,436,129	797,184	52,606	307,397	299,881	171,840
65	For other use.....organizations...	57	50	20	3	11	5	3	2
66	For other use.....acre-feet...	5,884	21,967	19,923	119,700	1,681	2,942	12,983	116,800
67	Delivered to other irrigation organizations.....organizations delivering...	957	30,996	111,800	2,000	1	...	...	...
68	acre-feet.....	8	47	56	7	...	266	...	...
69	acre-feet.....	2,951	89,126	765,904	574,413	576	3,421	3,520	138,767
AVERAGE DELIVERY OF IRRIGATION WATER PER ACRE, 1959									
70	Per acre irrigated, as reported by irrigation organization:								
71	All organizations.....acre-feet...	1.7	2.5	2.0	2.3	1.9	4.5	4.7	2.8
72	Organizations reporting 0 water from other sources used on land served by the organization.....organizations...	679	677	108	6	107	110	20	2
73	acre-feet.....	1.9	2.8	2.4	2.4	1.9	4.7	3.9	2.8

AND WATER CONVEYED, BY SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUS OF 1959

San Juan and Dolores Rivers				Green River				Gunnison River			
(IV-D-2, 4)				(IV-E)				(IV-F)			
Size of organization, by total water conveyed											
0-999 acre-feet	1,000- 9,999 acre-feet	10,000- 99,999 acre-feet	100,000 or more acre-feet	0-999 acre-feet	1,000- 9,999 acre-feet	10,000- 99,999 acre-feet	100,000 or more acre-feet	0-999 acre-feet	1,000-9,999 acre-feet	10,000 or more acre-feet	
101	48	14	...	49	69	7	...	200	146	13	1
95	44	13	...	48	69	7	...	187	133	12	2
37,163	131,628	300,191	...	27,117	206,675	80,167	...	69,235	418,437	643,500	3
32,206	110,773	256,568	...	24,028	175,539	70,939	...	61,861	364,965	510,632	4
93	44	11	...	48	69	7	...	185	131	9	5
30,655	110,773	198,239	...	24,028	175,539	70,939	...	60,678	353,787	107,569	6
1	...	2	...	...	...	...	...	1	2	3	7
383	...	31,761	...	...	...	...	...	213	8,634	375,101	8
270	...	26,548	...	...	...	...	...	300	2,544	27,962	9
1	...	...	1	...	...	...	...	...	...	...	10
898	...	...	...	...	...	...	...	670	...	...	11
3	...	1	...	...	...	...	...	4	8	...	12
1,693	...	22,477	...	...	...	...	...	1,069	20,338	...	13
525	...	17,194	...	...	...	...	...	746	15,384	...	14
1,168	...	5,283	...	...	...	...	...	323	4,974	...	15
1,403	...	19,794	...	...	...	...	...	1,010	17,642	...	16
3	...	1	...	...	...	...	...	4	6	...	17
1,403	...	19,794	...	...	...	...	...	1,010	9,064	...	18
...	...	...	...	...	...	...	...	...	2	...	19
...	...	...	...	...	...	...	...	...	6,168	...	20
...	...	...	...	...	...	...	...	...	2,410	...	21
...	...	...	...	...	...	...	...	...	...	...	22
...	...	...	...	...	...	...	...	...	...	...	23
...	4	...	...	...	...	...	...	2	5	...	24
...	21,265	...	...	...	...	...	...	982	20,981	13,132	25
...	17,328	...	...	...	...	...	...	918	20,209	11,819	26
...	4	...	...	...	...	...	...	2	4	...	27
...	17,328	...	...	...	...	...	...	918	13,208	11,819	28
...	...	...	...	...	...	...	...	...	1	...	29
...	...	...	...	...	...	...	...	...	495	...	30
...	...	...	...	...	...	...	...	...	6,506	...	31
...	...	...	...	...	...	...	...	...	...	...	32
...	...	...	...	...	...	...	...	...	...	...	33
3	...	...	...	1	...	...	...	7	...	...	34
88	48	13	...	44	64	6	...	132	134	12	35
36,533	51,739	103,409	...	8,678	37,874	15,844	...	31,079	92,751	115,280	36
19,409	44,934	88,462	...	7,918	35,528	15,844	...	22,617	86,993	104,940	37
9	...	1	...	4	5	1	...	60	12	1	38
2,020	...	8,000	...	807	3,960	10,000	...	18,430	13,629	4,100	39
1,920	...	8,000	...	807	3,960	10,000	...	10,734	10,617	2,000	40
42	26	12	...	39	61	5	...	101	85	9	41
63,474	263,208	1,297,496	...	51,667	226,738	52,840	...	178,097	189,248	350,473	42
99	47	14	...	48	69	7	...	193	146	13	43
37,690	131,626	317,385	...	27,117	206,675	80,167	...	69,981	433,821	643,500	44
...	...	...	...	...	...	1	...	...	1	...	45
...	...	...	...	...	...	4,038	...	...	1,292	...	46
...	...	...	...	...	...	...	...	...	...	...	47
99	43	14	...	48	69	12	...	191	140	12	48
37,690	131,626	317,385	...	27,117	206,675	76,129	...	69,981	432,529	643,500	49
99	43	14	...	48	69	6	...	189	140	12	50
37,690	131,626	317,385	...	27,117	206,675	76,129	...	69,817	432,529	643,500	51
...	...	...	...	...	...	...	...	...	...	...	52
...	...	...	...	...	...	...	...	164	...	...	53
3	4	1	...	...	...	...	...	6	13	1	54
1,168	21,265	5,283	...	...	...	...	...	1,305	25,955	13,132	55
99	47	14	...	48	69	7	...	193	146	13	56
37,690	152,851	296,120	...	27,117	206,675	80,167	...	70,316	448,316	628,670	57
95	42	13	...	48	68	12	...	179	143	12	58
4,474	24,790	41,705	...	3,089	31,136	9,228	...	7,495	55,760	131,281	59
1	...	1	...	...	...	...	...	...	...	...	60
242	...	1,661	...	...	...	...	...	...	...	...	61
...	...	...	...	...	...	...	...	...	...	...	62
98	47	14	...	48	69	7	...	192	146	13	63
32,974	128,101	252,754	...	24,028	175,539	70,939	...	62,821	392,556	497,389	64
98	47	14	...	48	69	7	...	192	146	13	65
32,326	128,080	249,774	...	24,028	175,539	70,939	...	62,779	390,982	491,289	66
5	2	1	...	...	...	...	...	5	3	2	67
115	21	40	...	...	...	...	...	44	374	3,200	68
2	...	...	...	...	...	...	...	1	2	2	69
533	...	2,940	...	...	...	...	...	2	1,200	2,900	70
2	...	2	...	...	...	...	...	2	5	3	71
1,168	...	26,548	...	...	...	...	...	970	11,460	27,962	72
1.5	2.8	2.6	...	2.7	4.4	3.0	...	1.9	4.0	4.6	73
88	48	13	...	44	64	6	...	132	134	12	74
1.5	2.8	2.6	...	2.7	4.5	4.3	...	0.9	4.2	4.6	75

State Table 5.—NUMBER OF IRRIGATION ORGANIZATIONS, TYPE OF SERVICE, NEW CAPITAL INVESTMENT, AND WATER CONVEYED, BY SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUS OF 1959—Continued

Item (For definitions and explanations, see text)		Rio Grande above Fort Quitman, Texas			Arkansas River		
		(V-C)			(VI-B)		
		Size of organization, by total water conveyed					
		0-999 acre-feet	1,000-9,999 acre-feet	10,000 or more acre-feet	0-999 acre-feet	1,000-9,999 acre-feet	10,000 or more acre-feet
1	Number of organizations.....organizations...	115	73	15	180	115	24
TYPE OF SERVICE							
2	All water directly from surface and ground sources.....organizations...	106	63	14	175	77	19
3	Total water conveyed.....acre-feet...	46,306	237,016	396,225	56,848	250,313	881,426
4	Water delivered.....acre-feet...	41,191	209,251	300,972	50,622	211,695	692,503
5	To farm and residential users only.....organizations...	106	57	8	174	72	13
6	To farm and residential users only.....acre-feet...	41,191	188,631	193,669	50,257	180,100	342,360
7	To farm and residential users and other						
8	irrigation organizations.....organizations...	...	6	5	1	5	6
9	Water to farm and residential users.....acre-feet...	...	14,596	57,151	269	16,285	212,828
10	Water to other irrigation organizations.....acre-feet...	...	6,024	28,958	96	15,310	137,315
11	To other irrigation organizations only.....organizations...	...	...	1	...	...	...
12	To other irrigation organizations only.....acre-feet...	...	...	21,194	...	...	...
13	Part of water from other organizations.....organizations...	1	3	1	...	...	2
14	Total water conveyed.....acre-feet...	857	13,202	23,259	...	...	147,735
15	From surface and ground water sources.....acre-feet...	420	9,897	3,178	...	...	124,558
16	From other irrigation organizations.....acre-feet...	437	3,305	20,081	...	...	23,177
17	Water delivered.....acre-feet...	620	11,424	22,035	...	...	121,175
18	To farm and residential users only.....organizations...	1	3	1	...	...	...
19	To farm and residential users only.....acre-feet...	620	11,424	22,035	...	...	...
20	To farm and residential users and other						
21	irrigation organizations.....organizations...	...	...	...	...	...	2
22	Water to farm and residential users.....acre-feet...	...	...	...	...	...	68,229
23	Water to other irrigation organizations.....acre-feet...	...	...	...	...	...	52,946
24	To other irrigation organizations only.....organizations...	...	...	...	...	...	...
25	To other irrigation organizations only.....acre-feet...	...	...	...	...	...	...
26	All of water from other organizations.....organizations...	5	7	...	3	38	3
27	Total water conveyed.....acre-feet...	3,221	29,132	...	1,601	140,302	40,587
28	Water delivered.....acre-feet...	2,532	23,894	...	1,383	125,751	36,069
29	To farm and residential users only.....organizations...	5	7	...	3	38	3
30	To farm and residential users only.....acre-feet...	2,532	23,894	...	1,383	125,751	36,069
31	To farm and residential users and other						
32	irrigation organizations.....organizations...	...	...	...	...	...	...
33	Water to farm and residential users.....acre-feet...	...	...	...	...	...	...
34	Water to other irrigation organizations.....acre-feet...	...	...	...	...	...	...
35	To other irrigation organizations only.....organizations...	...	...	...	...	...	...
36	To other irrigation organizations only.....acre-feet...	...	...	...	...	...	...
37	No water conveyed.....organizations...	3	...	...	2	...	...
WATER FROM OTHER SOURCES							
38	Organizations reporting no water from other sources used						
39	on land served by the organization.....organizations...	79	45	10	166	109	19
40	acres served.....	27,225	78,139	242,446	31,470	160,441	198,860
41	acres irrigated.....	21,279	69,059	206,316	23,693	134,200	196,209
42	Organizations reporting water from other sources used						
43	on land served by the organization.....organizations...	33	28	4	12	6	5
44	acres served.....	24,669	94,158	106,713	5,173	6,440	73,330
45	acres irrigated.....	15,070	60,916	46,982	2,513	4,840	70,030
NEW CAPITAL INVESTMENT, 1950-1959							
46	Expenditures for additional new works and						
47	equipment for irrigation and drainage,						
48	January 1, 1950-December 31, 1959.....organizations...	47	44	13	66	41	14
49	dollars.....	2,512,450	123,377	361,006	79,605	305,096	1,919,350
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
50	Total entering conveyance systems in basin.....organizations...	112	73	15	178	115	24
51	From another drainage basin.....organizations...	46,726	246,913	399,403	56,848	250,313	1,005,984
52	From drainage basin number.....D. B. No.....	...	...	...	...	...	2
53	From natural sources within basin.....organizations...	...	...	...	...	...	45,528
54	Surface water.....organizations...	107	66	15	175	77	21
55	Ground water.....organizations...	46,726	246,913	399,403	56,848	250,313	960,456
56	From other organizations in the basin.....organizations receiving.....	105	64	15	173	77	21
57	acres received.....	45,992	241,853	390,089	55,713	250,153	958,956
58	From other organizations in the basin.....organizations receiving.....	2	6	1	3	1	1
59	acres received.....	734	5,060	9,314	1,135	360	1,500
60	From other organizations in the basin.....organizations receiving.....	6	10	1	3	38	5
61	acres received.....	3,658	32,437	20,081	1,601	140,302	63,764
62	Total leaving conveyance systems.....organizations...	112	73	15	178	115	24
63	Conveyance loss in basin.....organizations...	50,384	273,326	369,332	58,353	375,505	879,487
64	Conveyed to another drainage basin.....organizations...	103	70	15	156	77	23
65	To drainage basin number.....D. B. No.....	6,041	34,781	96,477	6,444	51,235	145,409
66	Delivered for use in the basin.....organizations...	...	...	...	...	...	...
67	To farm irrigation water users.....organizations...	...	...	...	...	...	...
68	To residential water users.....organizations...	...	...	...	...	...	...
69	For other use.....organizations...	...	...	...	...	...	...
70	Delivered to other irrigation organizations.....organizations delivering.....	...	...	...	...	...	...
71	acres delivered.....	...	...	...	...	...	...
72	acres delivered.....	...	6,024	50,152	96	15,310	190,261
AVERAGE DELIVERY OF IRRIGATION WATER PER ACRE, 1959							
73	Per acre irrigated, as reported by irrigation organization:						
74	All organizations.....acre-feet...	1.2	1.8	1.1	2.0	2.3	2.5
75	Organizations reporting no water from other sources used						
76	on land served by the organization.....organizations...	79	45	10	166	109	19
77	acres irrigated.....	1.4	2.1	1.0	1.9	2.2	2.4

State Table 5.—NUMBER OF IRRIGATION ORGANIZATIONS, TYPE OF SERVICE, NEW CAPITAL INVESTMENT, AND WATER CONVEYED, BY SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUS OF 1959—Continued

Item (For definitions and explanations, see text)		Platte River excluding South Platte River (VI-D)				South Platte River above Gaging Station near Paxton, Nebraska (VI-E)		
		Size of organization, by total water conveyed						
		0-999 acre-feet	1,000- 9,999 acre-feet	10,000- 99,999 acre-feet	100,000 or more acre-feet	0-999 acre-feet	1,000-9,999 acre-feet	10,000 or more acre-feet
1	Number of organizations.....organizations...	9	54	8	...	118	227	64
TYPE OF SERVICE								
2	All water directly from surface and ground sources.....organizations...	9	54	7	...	63	130	38
3	Total water conveyed.....acre-feet...	23,937	224,540	106,580	...	26,861	465,885	1,438,863
4	Water delivered.....acre-feet...	3,216	190,748	86,055	...	23,919	381,040	1,148,812
5	To farm and residential users only.....organizations...	7	54	7	...	63	134	34
6	To farm and residential users only.....acre-feet...	3,216	190,748	86,055	...	23,919	313,930	235,925
7	To farm and residential users and other irrigation organizations.....organizations...	...	...	...	...	...	14	19
8	Water to farm and residential users.....acre-feet...	...	...	...	...	...	43,264	298,166
9	Water to other irrigation organizations.....acre-feet...	...	...	...	...	...	17,038	217,604
10	To other irrigation organizations only.....organizations...	...	...	...	...	...	2	5
11	To other irrigation organizations only.....acre-feet...	...	...	...	...	...	6,808	397,117
12	Part of water from other organizations.....organizations...	...	...	1	...	9	17	...
13	Total water conveyed.....acre-feet...	...	...	1,575	...	4,541	87,975	606,328
14	From surface and ground water sources.....acre-feet...	...	...	1,575	...	14,509	36,399	200,640
15	From other irrigation organizations.....acre-feet...	...	...	...	...	9,050	51,476	405,688
16	Water delivered.....acre-feet...	...	...	...	...	3,929	81,905	518,879
17	To farm and residential users only.....organizations...	...	...	...	...	8	12	5
18	To farm and residential users only.....acre-feet...	...	...	...	...	3,929	55,008	90,254
19	To farm and residential users and other irrigation organizations.....organizations...	...	...	1	...	...	4	11
20	Water to farm and residential users.....acre-feet...	...	...	...	...	...	12,112	181,977
21	Water to other irrigation organizations.....acre-feet...	...	...	...	...	...	8,448	224,672
22	To other irrigation organizations only.....organizations...	...	...	...	...	...	1	...
23	To other irrigation organizations only.....acre-feet...	...	...	...	...	...	6,300	22,376
24	All of water from other organizations.....organizations...	...	...	...	...	39	8	9
25	Total water conveyed.....acre-feet...	...	...	...	...	18,620	271,811	201,431
26	Water delivered.....acre-feet...	...	...	...	...	16,326	246,819	171,626
27	To farm and residential users only.....organizations...	...	...	...	...	...	72	4
28	To farm and residential users only.....acre-feet...	...	...	...	...	15,593	210,090	87,353
29	To farm and residential users and other irrigation organizations.....organizations...	...	...	...	...	2	8	5
30	Water to farm and residential users.....acre-feet...	...	...	...	...	592	22,449	42,935
31	Water to other irrigation organizations.....acre-feet...	...	...	...	...	141	14,280	41,338
32	To other irrigation organizations only.....organizations...	...	...	...	...	...	...	...
33	To other irrigation organizations only.....acre-feet...	...	...	...	...	...	...	...
34	No water conveyed.....organizations.....	...	...	...	...	7	...	...
WATER FROM OTHER SOURCES								
35	Organizations reporting no water from other sources used on land served by the organization.....organizations...	6	49	7	...	57	116	25
36	acres served.....	1,240	40,425	17,260	...	14,669	214,065	251,303
37	acres irrigated.....	1,240	40,025	17,260	...	13,337	194,380	232,425
38	Organizations reporting water from other sources used on land served by the organization.....organizations...	1	5	1	...	53	107	33
39	acres served.....	145	6,195	27,660	...	19,516	215,824	425,187
40	acres irrigated.....	145	6,195	27,000	...	18,036	204,082	398,517
NEW CAPITAL INVESTMENT, 1950-1959								
41	Expenditures for additional new works and equipment for irrigation and drainage, January 1, 1950-December 31, 1959.....organizations...	2	30	3	...	17	51	33
42	dollars.....	400	49,190	15,015	...	35,242	410,759	31,581,870
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959								
43	Total entering conveyance systems in basin.....organizations...	9	54	8	...	113	227	64
44	acre-feet.....	23,937	224,540	108,155	...	22,352	502,284	1,641,420
45	From another drainage basin.....organizations...	...	...	...	...	2	...	3
46	acre-feet.....	...	...	...	...	20,389	...	288,756
47	From Drainage Basin number.....D. B. No.....	...	...	...	...	...	...	...
48	From natural sources within basin.....organizations...	9	54	8	...	74	147	...
49	acre-feet.....	23,937	224,540	108,155	...	1,963	502,284	1,352,664
50	Surface water.....organizations...	9	54	8	...	73	147	...
51	acre-feet.....	23,937	224,540	108,155	...	1,813	500,884	1,341,724
52	Ground water.....organizations...	...	...	...	...	...	2	...
53	acre-feet.....	...	...	...	...	150	1,400	...
54	From other organizations in the basin.....organizations receiving...	...	...	...	...	48	97	26
55	acre-feet.....	...	...	...	...	27,670	323,287	605,202
56	Total leaving conveyance systems.....organizations...	9	54	8	...	113	227	64
57	acre-feet.....	23,937	224,540	108,155	...	49,881	772,660	1,343,515
58	Conveyance loss in basin.....organizations...	7	52	7	...	98	197	51
59	acre-feet.....	332	33,792	20,525	...	5,426	88,415	370,441
60	Conveyed to another drainage basin.....organizations...	2	...	1	...	...	...	1
61	acre-feet.....	20,389	...	1,975	...	...	...	3,492
62	To drainage basin number.....D. B. No.....	...	...	...	...	...	...	...
63	Delivered for use in the basin.....organizations...	7	54	7	...	110	224	60
64	acre-feet.....	3,216	190,748	86,055	...	44,455	684,249	969,978
65	To farm irrigation water users.....organizations...	7	54	7	...	109	222	58
66	acre-feet.....	3,216	190,748	86,055	...	40,162	639,474	934,004
67	To residential water users.....organizations...	...	...	...	...	31	35	9
68	acre-feet.....	...	...	...	...	3,871	17,379	2,205
69	For other use.....organizations...	...	...	...	...	2	2	...
70	acre-feet.....	...	...	...	...	422	27,396	33,368
71	Delivered to other irrigation organizations.....organizations delivering...	...	...	...	...	2	29	41
72	acre-feet.....	...	...	...	...	141	52,911	903,107
AVERAGE DELIVERY OF IRRIGATION WATER PER ACRE, 1959								
73	Per acre irrigated, as reported by irrigation organization.....acre-feet...	2.3	4.1	5.0	...	1.3	1.6	1.5
74	All organizations.....	...	...	...	...	...	...	...
75	Organizations reporting no water from other sources used on land served by the organization.....organizations...	6	49	7	...	57	116	25
76	acre-feet.....	2.5	4.3	5.0	...	1.5	1.7	1.6

¹Water was transferred to the basin and released to natural stream channels in excess of the quantity of surface water withdrawn by irrigation organizations. The net effect was to increase the available surface water supply in the basin or State.

IDAHO

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IRRIGATION OF AGRICULTURAL LANDS

State Table 1.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS.

Item (For definitions and explanations, see text)	The State	North Pacific Coast, total	Columbia River excluding Snake River (1-C)				Snake River, total	Snake River below Weiser (1-E)	
			Total	Spokane River	Clark Fork	Kootenai River		Total	Sneke River direct
			(7)	(8)	(9)			(1)	
1 Total acres irrigated in Census year.....1959...	2,576,580	2,416,000	10,000	7,000	3,000	...	2,406,000	142,000	14,000
2 1949.....	2,167,879	2,032,585	4,972	4,174	376	422	2,027,613	136,872	12,178
3 Irrigation organizations.....organizations 1959...	927	747	14	9	5	...	733	105	9
4 1949.....	1,064	875	9	6	3	...	866	136	12
5 Service area, 1959:									
6 Farm area reported served by organizations.....acres 1959...	2,482,113	2,288,838	11,106	8,404	2,702	...	277,732	73,318	6,562
7 Farm area reported irrigated by organizations.....acres 1959...	2,299,457	2,123,611	7,714	6,897	817	...	2,115,897	64,384	6,542
8 Water users served, total.....water users 1959...	81,467	77,580	1,146	986	160	...	76,434	4,227	2,865
9 Farm irrigation water users.....water users 1959...	43,525	40,147	903	822	81	...	39,244	1,115	650
10 Residential water users.....water users 1959...	37,743	37,238	243	164	79	...	36,995	3,002	2,105
11 Other water users.....water users 1959...	199	195	...	...	...	...	195	110	110
12 LAND IRRIGATED BY SOURCE OF WATER, 1959									
13 Ground water sources.....acres...	452,898	431,000	1,000	1,000	...	...	430,000	3,000	...
14 Surface water sources.....acres...	2,123,704	1,985,000	9,000	6,000	3,000	...	1,976,000	139,000	14,000
15 WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959									
16 Total entering conveyance systems in basin.....organizations...	920	739	14	9	5	...	725	105	9
17 acre-feet...	14,214,626	13,636,610	85,694	82,973	2,721	...	13,550,916	368,930	35,234
18 From another drainage basin.....organizations...	11	10	...	...	...	...	10	2	2
19 acre-feet...	140,305	145,835	...	...	...	...	145,835	26,139	26,139
20 From drainage basin number.....D. B. No....	...	...	...	...	...	...	...	...	I-F-2
21 From natural sources within basin.....organizations...	783	631	11	6	5	...	620	102	7
22 acre-feet...	14,074,321	13,490,775	85,694	82,973	2,721	...	13,405,081	342,791	9,095
23 Surface water.....organizations...	734	603	10	6	4	...	593	102	7
24 acre-feet...	13,527,060	12,963,741	84,970	82,973	1,997	...	12,878,771	342,791	9,095
25 Ground water.....organizations...	69	48	1	...	1	...	47	...	...
26 acre-feet...	547,261	527,034	724	...	724	...	526,330	...	...
27 From other organizations in the basin.....organizations receiving...	191	161	3	3	...	...	198	4	3
28 acre-feet...	2,511,850	2,345,297	16,409	16,409	...	...	2,328,848	23,772	22,315
29 Total leaving conveyance systems.....organizations...	920	739	14	9	5	...	725	105	9
30 acre-feet...	14,214,626	13,636,610	85,694	82,973	2,721	...	13,550,916	368,930	35,234
31 Conveyance loss in basin.....organizations...	841	669	5	4	1	...	664	99	6
32 acre-feet...	2,948,184	2,861,742	14,720	14,480	240	...	2,847,022	68,621	3,500
33 Conveyed to another drainage basin.....organizations...	12	2	2	2	...	...	3	...	...
34 acre-feet...	145,697	80,422	52,339	52,339	...	...	28,083	...	...
35 To drainage basin number.....D. B. No....	...	...	1-C-7	...	...	...	...	...	...
36 Delivered for use in the basin.....organizations...	911	735	12	7	5	...	723	104	8
37 acre-feet...	11,120,785	10,694,446	18,635	16,154	2,481	...	10,675,811	300,309	31,734
38 To farm irrigation water users.....organizations...	911	735	12	7	5	...	723	104	8
39 acre-feet...	10,884,661	10,460,907	17,963	16,040	1,923	...	10,442,944	290,895	27,039
40 To residential water users.....organizations...	107	94	3	1	2	...	91	7	2
41 acre-feet...	220,313	217,740	672	114	58	...	217,068	9,334	4,615
42 For other use.....organizations...	29	27	...	...	...	...	27	1	1
43 acre-feet...	15,811	15,799	...	...	...	...	15,799	80	80
44 Delivered in other irrigation organizations.....organizations delivering...	76	67	1	1	...	...	66	2	1
45 acre-feet...	2,511,850	2,345,297	16,409	16,409	...	...	2,328,848	23,772	22,315
46 Average delivery of irrigation water per acre irrigated as reported by organizations.....acre-feet...	4.7	4.9	2.3	2.3	2.4	...	4.9	4.5	4.1
47 NEW CAPITAL INVESTMENT, 1950-1959									
48 Expenditures for additional new works and equipment for irrigation and drainage, Jan. 1, 1950-Dec. 31, 1959.....organizations...	382	329	8	4	4	...	321	55	6
49 dollars...	24,527,359	23,532,492	1,123,598	1,063,748	59,850	...	22,408,894	526,969	445,638

¹101,201 acre-feet from D. B. No. 1-F-1b, 60,250 acre-feet from D. B. No. 1-G-1a, 13,509 acre-feet from D. B. No. 1-G-2a, 93,425 acre-feet from D. B. No. 1-F-3a.

²253,323 acre-feet from D. B. No. 1-F-4, 2,160 acre-feet from D. B. No. 1-F-1, 135,470 acre-feet from D. B. No. 1-F-3a.

³24,283 acre-feet to D. B. No. 1-F-1, 2,160 acre-feet to D. B. No. 1-F-3a.

BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950

Snake River below Weiser (I-E)—Continued								Snake River, Weiser to King Hill (I-F)					
Salmon River								Payette River					
Total	Salmon River direct				Lemhi River (3d)	Pahai- meroi River (3e)	Total	Snake River direct (1)	Weiser River (2)				
	Total	Below French Creek (3a)	French Creek to Salmon (3b)	Above Salmon (3c)						Total	Payette River direct (3a)	North Fork (3b)	
128,000 124,694	63,000 59,201	15,000 14,355	14,000 10,321	34,000 34,525	47,000 46,814	18,000 18,679	611,000 557,812	167,000 144,180	35,000 25,797	114,000 107,355	87,000 79,396	27,000 27,959	1 2
96 124	51 65	10 11	15 23	26 31	34 45	11 15	234 269	31 42	70 83	67 74	53 59	14 16	3 4
66,756	34,139	8,090	5,510	20,539	24,617	8,000	606,613	133,756	37,575	125,403	93,574	31,829	5
57,842	31,087	8,072	5,270	17,745	19,860	6,895	582,622	125,827	35,088	117,576	88,716	28,860	6
1,362	1,183	176	45	962	135	44	29,935	3,734	1,967	3,376	3,182	194	7
465	292	85	45	162	129	44	16,618	2,271	571	2,438	2,244	194	8
897	891	91	...	800	6	...	13,255	1,460	1,396	928	928	...	9
...	...	...	...	...	...	...	62	3	...	10	10	...	10
3,000	1,000	...	1,000	...	1,000	1,000	28,000	10,000	1,000	3,000	2,000	1,000	11
125,000	62,000	15,000	13,000	34,000	46,000	17,000	583,000	157,000	34,000	111,000	85,000	26,000	12
96 333,696	52 197,711	10 19,419	15 32,260	27 146,032	34 96,590	11 41,092	228 3,762,588	40 854,633	69 151,384	65 794,495	52 703,346	13 91,149	13 14
...	1	...	...	1	...	...	5	13	...	2	...	...	15
...	1,697	...	...	1,697	...	...	184,960	521,708	...	137,630	137,630	...	16
...	I-E-3d	...	...	I-E-3d	...	...	...	(1)	...	...	(2)	...	17
95 333,696	50 196,014	9 19,419	15 32,260	26 144,335	34 96,590	11 41,092	203 3,577,628	24 332,925	68 151,384	59 656,865	46 565,716	13 91,149	18 19
95 333,696	50 196,014	9 19,419	15 32,260	26 144,335	34 96,590	11 41,092	201 3,534,440	22 322,724	68 151,384	59 656,845	46 565,716	13 91,129	20 21
...	...	...	...	...	...	...	6	3	...	1	...	...	22
...	...	...	...	...	...	...	43,188	10,201	...	20	...	20	23
1 1,457	1 1,457	1 1,457	...	...	...	...	55 361,603	11 76,616	13 38,174	12 64,429	12 64,429	...	24 25
96 333,696	52 197,711	10 19,419	15 32,260	27 146,032	34 96,590	11 41,092	228 3,762,588	40 854,633	69 151,384	65 794,495	52 703,346	13 91,149	26 27
93 65,121	51 41,132	10 1,617	15 6,199	26 33,316	33 18,753	10 5,236	200 696,477	31 143,199	64 14,699	59 113,912	47 104,885	12 9,027	28 29
...	...	...	...	...	...	1	...	3	...	5	5	...	30
...	...	...	...	...	1,697	...	50,422	26,443	26,139	93,425	93,425	...	31
...	...	...	...	...	I-E-3e	...	...	(2)	I-E-1	I-F-1	I-F-1	...	32
97 268,979	52 156,579	10 17,802	15 26,061	27 112,716	34 76,140	11 35,856	226 3,015,689	39 684,991	66 110,546	65 587,158	52 505,036	13 82,122	33 34
96 263,856	52 151,862	10 15,823	15 26,061	27 109,978	34 76,138	11 35,856	226 2,860,600	39 679,203	66 100,792	65 578,367	52 496,245	13 82,122	35 36
5 4,719	4 4,717	3 1,979	...	1 2,738	1 2	...	43 146,979	4 1,960	13 7,954	13 8,077	13 8,077	...	37 38
...	...	...	...	...	...	...	14 8,110	3 3,828	1 1,800	4 714	4 714	...	39 40
1 1,457	1 1,457	1 1,457	...	...	...	...	21 361,603	6 76,616	5 38,174	4 64,429	4 64,429	...	41 42
4.6	4.9	2.0	4.9	6.2	3.8	5.2	4.9	5.4	2.9	4.9	5.6	2.8	43
49 81,331	26 57,739	...	7 8,705	19 49,034	21 22,467	3 1,125	89 8,915,717	16 660,687	18 24,845	32 294,451	24 252,517	8 41,914	44 45

IRRIGATION OF AGRICULTURAL LANDS

State Table 1.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS,

	Item (For definitions and explanations, see text)	Snake River, Weiser to King Hill (1-F)—Continued		Snake River, King Hill to American Falls (1-G)						
		Boise River	Bruneau River and Owyhee River	Total	Snake River direct			Big Wood River	Upper Salmon Falls Creek and Goose Creek	Raft River
					Total	King Hill to Milner	Milner to American Falls			
	(6)	(5, 7)		(1a)	(1b)	(2)	(3, 4)	(5)		
1	Total acres irrigated in Census year.....1959...	271,000	24,000	855,000	635,000	382,000	253,000	140,000	54,000	26,000
2	1949.....	253,393	27,087	678,398	503,358	372,799	130,599	123,602	24,264	27,174
3	Irrigation organizations.....organizations 1959...	61	5	104	64	29	35	30	3	7
4	1949.....	74	6	101	57	30	30	34	4	9
5	Service area, 1959:									
6	Farm area reported served by organizations.....acres 1959...	299,319	10,560	823,424	639,947	421,228	218,719	133,651	15,000	34,826
7	Farm area reported irrigated by organizations.....acres 1959...	294,426	9,705	744,437	595,265	389,100	206,165	120,359	15,000	13,813
8	Water users served, total.....water users 1959...	20,737	121	27,582	25,824	22,298	3,526	1,393	221	144
9	Farm irrigation water users.....water users 1959...	11,267	71	10,378	8,771	5,616	3,155	1,326	137	144
10	Residential water users.....water users 1959...	9,421	50	17,196	17,049	16,678	371	63	84	...
11	Other water users.....water users 1959...	49	...	8	4	4	...	4	...	...
12	LAND IRRIGATED BY SOURCE OF WATER, 1959									
13	Ground water sources.....acres...	11,000	3,000	211,000	146,000	73,000	73,000	16,000	29,000	20,000
14	Surface water sources.....acres...	260,000	21,000	644,000	489,000	309,000	180,000	124,000	25,000	6,000
15	WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959									
16	Total entering conveyance systems in basin.....organizations... acre-feet...	60	5	103	64	34	34	32	3	7
17	2,402,852	43,602	4,581,339	4,118,397	2,719,313	3,910,131	749,860	87,200	20,667	...
18	From another drainage basin.....organizations... acre-feet...	...	1	...	1	4	1	2	...	...
19	10,000	...	...	37,110	2,545,691	2,466	397,675	...	...	...
20	From drainage basin number.....D. B. No....	...	1-F-5a	...	(1)	1-G-1a	(2)	...	...	...
21	From natural sources within basin.....organizations... acre-feet...	51	4	96	58	25	34	30	3	5
22	2,402,852	33,602	4,581,339	4,081,287	173,622	3,907,665	392,185	87,200	20,667	...
23	Surface water.....organizations... acre-feet...	51	4	86	49	15	34	29	3	5
24	2,369,685	33,602	4,313,721	3,817,375	131,142	3,686,233	388,479	87,200	20,667	...
25	Ground water.....organizations... acre-feet...	3	...	16	12	10	2	4	...	...
26	32,967	...	267,618	263,912	42,480	221,432	3,706	...	...	...
27	From other organizations in the basin.....organizations receiving... acre-feet...	19	...	10	6	3	1	2	...	2
28	182,384	...	409,363	72,239	54,330	17,909	334,446	...	2,678	...
29	Total leaving conveyance systems.....organizations... acre-feet...	60	5	103	64	34	34	32	3	7
30	2,402,852	43,602	4,581,339	4,118,397	2,719,313	3,910,131	749,860	87,200	20,667	...
31	Conveyance loss in basin.....organizations... acre-feet...	51	4	84	54	27	30	26	2	5
32	418,969	5,698	1,299,233	1,018,618	757,405	261,213	231,026	8,330	1,259	...
33	Conveyed to another drainage basin.....organizations... acre-feet...	6	...	3	4	4	4	1	...	...
34	38E,794	...	73,759	417,925	90,731	2,838,241	13,509	37,110	...	...
35	To drainage basin number.....D. B. No....	(4)	...	...	(5)	(6)	1-F-1	1-G-1a	...	...
36	Delivered for use in the basin.....organizations... acre-feet...	59	5	102	64	34	33	30	2	7
37	1,595,090	37,904	3,248,347	2,681,854	1,871,177	810,677	505,325	41,760	19,408	...
38	To farm irrigation water users.....organizations... acre-feet...	59	5	102	64	34	33	30	2	7
39	1,464,782	37,456	3,209,798	2,697,175	1,848,346	808,829	491,655	41,520	19,408	...
40	To residential water users.....organizations... acre-feet...	22	16	36,529	23,119	5	6	5	1	...
41	128,540	448	...	...	...	...	...	...	...	...
42	For other use.....organizations... acre-feet...	7	...	3	2	2	...	1	...	...
43	1,768	...	2,060	1,560	1,560	...	500	...	...	...
44	Delivered to other irrigation organizations.....organizations delivering... acre-feet...	10	...	7	4	4	1	...	...	1
45	182,384	...	409,363	72,239	54,330	17,909	334,446	...	2,678	...
46	Average delivery of irrigation water per acre irrigated as reported by organizations...acre-feet...	5.0	3.9	4.3	4.5	4.8	3.9	4.1	2.9	1.4
47	NEW CAPITAL INVESTMENT, 1950-1959									
48	Expenditures for additional new works and equipment for irrigation and drainage, Jan. 1, 1950-Dec. 31, 1959.....organizations... dollars...	26	1	41	20	12	10	21	...	1
49	7,932,459	3,295	11,343,316	11,220,932	867,578	10,353,354	85,071	...	37,313	...

137,110 acre-feet from D. B. No. 1-G-3, 2,508,581 acre-feet from D. B. No. 1-G-1b.

228,015 acre-feet from D. B. No. 1-G-1a, 329,660 acre-feet from D. B. No. 1-G-2a.

21,014 acre-feet from D. B. No. V-1-C, 22,180 acre-feet from D. B. No. 1-H-3b.

419,470 acre-feet to D. B. No. 1-F-3a, 253,323 acre-feet to D. B. No. 1-F-6.

2,466 acre-feet to D. B. No. 1-G-1b, 28,015 acre-feet to D. B. No. 1-G-2a, 60,250 acre-feet to D. B. No. 1-F-1.

329,660 acre-feet to D. B. No. 1-G-2a, 2,508,581 acre-feet to D. B. No. 1-G-1a.

BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Continued

Snake River above American Falls (I-H)												
Total	Snake River direct				Henrys Fork			Independent basins				
	Total	American Falls to Heise	Above Heise	Portneuf River and Salt River	Total	Henrys Fork direct	Upper Teton River	Total	Big Lost River	Little Lost River	Mud Lake, Camas Creek, Medicine Lodge, and Birch Creeks	
		(1a)	(1b)	(2, 4)		(3a)	(3b)		(6a)	(6b)	(6c, 6d)	
798,000	511,000	495,000	16,000	37,000	132,000	96,000	36,000	118,000	43,000	14,000	61,000	1
654,531	390,456	382,929	7,527	35,362	140,448	102,168	38,280	88,265	36,927	10,779	40,559	2
295	122	118	4	75	71	42	29	27	5	8	14	3
366	176	170	6	67	101	52	50	24	7	8	9	4
774,377	484,484	477,504	6,980	27,493	168,639	127,206	41,433	93,761	35,855	7,195	50,711	5
724,454	448,636	442,906	5,730	25,310	163,678	122,745	40,933	86,830	32,835	5,315	48,680	6
14,690	11,098	11,062	36	691	2,162	1,831	331	739	426	41	272	7
11,133	7,942	7,906	36	556	1,896	1,571	325	739	426	41	272	8
3,542	3,147	3,147	...	129	266	260	6	...	...	...	...	9
15	9	9	...	6	...	...	...	...	...	...	...	10
188,000	114,000	107,000	7,000	8,000	8,000	4,000	4,000	58,000	8,000	8,000	42,000	11
610,000	397,000	388,000	9,000	29,000	124,000	92,000	32,000	60,000	35,000	6,000	19,000	12
294	123	119	4	75	70	42	29	27	5	8	14	13
4,937,997	3,461,688	3,428,170	33,518	94,715	964,978	859,537	117,173	429,483	161,815	19,095	248,573	14
8	1	...	...	2	6	1	6	...	...	...	...	15
34,634	12,907	12,907	...	11,440	23,194	11,732	23,194	...	...	...	...	16
...	...	I-H-3a	...	III-E-1a	...	I-H-3b	(?)	...	...	...	...	17
218	70	67	3	57	64	41	23	27	5	8	14	18
4,903,323	3,448,781	3,415,263	33,518	83,275	941,784	847,805	93,979	429,483	161,815	19,095	248,573	19
202	69	66	3	54	61	41	20	18	5	8	5	20
4,687,819	3,442,248	3,408,988	33,260	82,155	935,904	847,505	88,399	227,512	161,815	14,097	51,640	21
25	4	...	1	4	...	1	3	13	...	2	11	22
215,504	6,533	6,275	258	1,120	5,880	300	5,580	201,971	...	5,038	196,933	23
89	70	69	1	17	2	2	...	...	...	...	...	24
1,534,110	1,492,697	1,486,307	6,390	28,793	12,620	12,620	...	...	...	...	...	25
294	123	119	4	75	70	42	29	27	5	8	14	26
4,937,997	3,461,688	3,428,170	33,518	94,715	964,978	859,537	117,173	429,483	161,815	19,095	248,573	27
281	117	113	4	70	69	41	29	26	5	7	14	28
822,691	573,424	570,616	2,808	17,830	122,025	106,771	15,254	109,412	60,467	3,347	45,598	29
1	...	...	...	1	1	1	1	...	...	...	...	30
3,800	...	...	...	3,800	12,907	12,907	11,732	...	...	...	...	31
...	...	...	...	III-E-1a	I-H-1a	I-H-1a	...	...	...	...	...	32
291	122	118	4	73	70	42	29	27	5	8	14	33
4,111,466	2,888,264	2,857,354	30,710	73,085	830,046	739,859	90,187	320,071	101,348	15,748	202,975	34
291	122	118	4	73	70	42	29	27	5	8	14	35
4,081,691	2,866,140	2,835,430	30,710	71,919	823,561	733,386	90,175	320,071	101,348	15,748	202,975	36
25	15	...	...	6	4	3	1	...	...	...	...	37
24,226	17,237	17,237	...	504	6,485	6,473	12	...	...	...	...	38
9	3	3	...	6	...	...	...	...	...	...	...	39
5,549	4,887	4,887	...	662	...	...	...	...	...	...	...	40
36	24	23	1	11	1	1	...	...	...	...	...	41
1,534,110	1,492,697	1,486,307	6,390	28,793	12,620	12,620	...	...	...	...	...	42
5.6	6.4	6.4	5.4	2.8	5.0	6.0	2.2	3.7	3.1	3.0	4.2	43
137	63	62	1	19	44	31	13	11	3	4	4	44
1,622,892	905,691	904,191	1,500	105,364	172,404	144,653	27,751	439,433	6,947	10,500	421,986	45

State Table 1.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY DRAINAGE BASINS:
CENSUSES OF 1959 AND 1950—Continued

Item (For definitions and explanations, see text)	Great Basin, total	Northwest Great Salt Lake Basin III-D	Bear River (III-E)					
			Total	Bear River direct			Upper Malad River	Little Bear River
				Total	Below Alexander	Above Alexander		
1 Total acres irrigated in Census year.....1959...	161,000	6,000	155,000	138,000	74,000	64,000	17,000	...
2 1949...	135,294	2,086	133,208	116,344	63,489	52,855	16,864	...
3 Irrigation organizations.....organizations 1959...	182	2	180	148	90	58	32	...
4 1949...	192	3	189	156	94	63	33	...
5 Service area, 1959:								
6 Farm area reported served by organizations.....acres 1959...	193,275	(D)	(D)	(D)	101,409	(D)	(D)	...
7 Farm area reported irrigated by organizations.....acres 1959...	175,846	(D)	(D)	(D)	94,512	(D)	(D)	...
8 Water users served, total.....water users 1959...	3,887	(D)	(D)	(D)	1,821	(D)	(D)	...
9 Farm irrigation water users.....water users 1959...	3,378	(D)	(D)	(D)	1,712	(D)	(D)	...
10 Residential water users.....water users 1959...	505	...	(D)	(D)	105	(D)	(D)	...
11 Other water users.....water users 1959...	4	...	(D)	(D)	4	...	...	...
12 LAND IRRIGATED BY SOURCE OF WATER, 1959								
13 Ground water sources.....acres...	22,000	3,000	19,000	10,000	5,000	5,000	9,000	...
14 Surface water sources.....acres...	139,000	3,000	136,000	128,000	69,000	59,000	8,000	...
15 WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959								
16 Total entering conveyance systems in basin.....organizations...	182	2	180	148	90	58	32	...
17 acre-feet...	590,381	(D)	(D)	(D)	326,554	(D)	(D)	...
18 From another drainage basin.....organizations...	3	...	3	3	3	1	...	...
19 acre-feet...	6,835	...	(D)	(D)	11,871	(D)	...	...
20 From drainage basin number.....D. B. No....	...	...	...	...	(¹)	I-G-3	...	...
21 From natural sources within basin.....organizations...	153	2	151	118	69	50	32	...
22 acre-feet...	583,546	(D)	(D)	(D)	314,683	(D)	(D)	...
23 Surface water.....organizations...	134	1	133	115	69	47	17	...
24 acre-feet...	563,319	(D)	(D)	(D)	314,683	(D)	(D)	...
25 Ground water.....organizations...	21	1	20	2	...	3	17	...
26 acre-feet...	20,227	(D)	(D)	(D)	...	(D)	(D)	...
27 From other organizations in the basin.....organizations receiving...	30	...	30	29	23	7	...	...
28 acre-feet...	166,593	...	(D)	(D)	158,715	(D)	...	...
29 Total leaving conveyance systems.....organizations...	182	2	180	148	90	58	32	...
30 acre-feet...	590,381	10,105	(D)	(D)	326,554	(D)	(D)	...
31 Conveyance loss in basin.....organizations...	176	2	174	142	86	57	32	...
32 acre-feet...	86,442	(D)	(D)	(D)	51,904	(D)	(D)	...
33 Conveyed to another drainage basin.....organizations...	9	1	8	6	7	1	1	...
34 acre-feet...	77,600	(D)	(D)	(D)	74,235	(D)	(D)	...
35 To drainage basin number.....D. B. No....	...	III-D-1	...	...	(²)	III-E-1a	III-E-2	...
36 Delivered for use in the basin.....organizations...	181	2	179	148	91	57	32	...
37 acre-feet...	426,339	(D)	(D)	(D)	200,415	(D)	(D)	...
38 To farm irrigation water users.....organizations...	181	2	179	147	91	57	32	...
39 acre-feet...	423,754	(D)	(D)	(D)	200,071	(D)	(D)	...
40 To residential water users.....organizations...	13	...	13	10	2	8	3	...
41 acre-feet...	2,973	...	(D)	(D)	332	(D)	(D)	...
42 For other use.....organizations...	2	...	2	2	2	...	...	...
43 acre-feet...	12	...	(D)	(D)	12	...	...	...
44 Delivered to other irrigation organizations.....organizations delivering...	10	...	10	9	8	2	...	...
45 acre-feet...	166,593	...	(D)	(D)	158,715	(D)	...	...
46 Average delivery of irrigation water per acre irrigated as reported by organizations...acre-feet...	2.4	(D)	(D)	(D)	2.1	(D)	(D)	...
47 NEW CAPITAL INVESTMENT, 1950-1959								
48 Expenditures for additional new works and equipment for irrigation and drainage, Jan. 1, 1950-Dec. 31, 1959.....organizations...	53	2	51	41	35	7	10	...
49 dollars...	995,367	(D)	(D)	(D)	577,852	(D)	(D)	...

D Data not shown to avoid disclosure of information for individual organizations.

¹8,036 acre-feet from D. B. No. III-E-1b, 3,800 acre-feet from D. B. No. I-H-2, 35 acre-feet, from D. B. No. III-E-1b.²65,670 acre-feet to D. B. No. III-E-1a, 8,565 acre-feet to D. B. No. I-H-2.

State Table 2.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950

Item (For definitions and explanations, see text)	Idaho, total	Columbia River (excluding Yaloma River) and Snake River below Weiser	S Snake River, Weiser to King Hill	S Snake River, King Hill to American Falls	S Snake River above American Falls	Bonneville Basin and Bear River
		(I-C and I-E)	(I-F)	(I-G)	(I-H)	(III-D and III-E)
1 Irrigation organizations, total						
2 Number.....organizations 1959...	927	119	234	104	295	182
1949...	1,064	145	269	101	366	192
3 Area irrigated as reported by						
4 organizations.....acres 1959...	2,299,457	72,098	582,622	744,437	724,454	175,846
1949...	1,896,032	65,506	482,842	614,117	596,490	137,077
5 Farm water users served directly....water users 1959...	43,525	2,018	16,618	10,378	11,133	3,378
6 Total water conveyed.....acre-feet 1959...	16,726,476	494,805	4,124,191	4,990,702	6,472,067	756,974
TYPE OF ORGANIZATION						
7 Mutual:						
8 Unincorporated.....organizations 1959...	497	93	113	68	118	105
1949...	648	124	151	70	193	110
9 Farm area irrigated directly.....acres 1959...	211,622	45,987	42,466	31,109	58,300	33,760
10 Farm water users served						
11 directly.....water users 1959...	2,589	490	634	380	627	458
1949...	1,035,785	297,969	234,115	133,816	258,984	110,901
12 Incorporated.....organizations 1959...	367	13	91	28	164	76
1949...	348	7	85	23	156	81
14 Farm area irrigated directly.....acres 1959...	1,295,602	7,853	153,249	539,423	454,241	(D)
15 Farm water users served						
16 directly.....water users 1959...	20,979	109	3,642	7,851	6,478	(D)
1949...	10,150,336	91,582	1,189,466	3,574,976	4,720,187	(D)
17 District.....organizations 1959...	53	11	28	6	9	1
18 1949...	54	10	27	7	11	1
20 Farm area irrigated directly.....acres 1959...	676,471	(D)	380,907	105,658	170,899	(D)
21 Farm water users served						
22 directly.....water users 1959...	18,136	(D)	12,317	1,500	2,901	(D)
1949...	5,021,558	(D)	2,690,610	1,045,609	1,221,610	(D)
23 U. S. Bureau of Reclamation; projects and stor-						
24 age systems operated by bureau.....organizations 1959...	4	...	1	2	1	...
1949...	4	1	4	1	2	...
25 Farm area irrigated directly.....acres 1959...	76,767	...	...	68,247	8,520	...
26 Farm water users served						
27 directly.....water users 1959...	714	...	...	647	67	...
1949...	253,019	...	...	236,301	16,178	...
28 U. S. Bureau of Reclamation; operated						
29 by water users .....organizations 1959...	12	5	3	3	...	1
1949...	11	NA	NA	NA	NA	NA
30 Farm area irrigated directly.....acres 1959...	350,674	7,307	216,531	(D)	...	(D)
31 Farm water users served						
32 directly.....water users 1959...	8,836	1,146	5,168	(D)	...	(D)
1949...	2,758,367	24,025	1,604,093	(D)	...	(D)
33 U. S. Bureau of Indian Affairs.....organizations 1959...	3	...	1	...	2	...
34 1949...	6	1	1	...	4	...
35 Farm area irrigated directly.....acres 1959...	(D)	...	6,000	...	(D)	...
36 Farm water users served						
37 directly.....water users 1959...	(D)	...	25	...	(D)	...
1949...	(D)	...	10,000	...	(D)	...
38 Commercial.....organizations 1959...	1	1	...	...	...	...
39 1949...	3	1	...	...	...	...
40 Farm area irrigated directly.....acres 1959...	(D)	(D)	...	...	...	...
41 Farm water users served						
42 directly.....water users 1959...	(D)	(D)	...	...	...	...
1949...	(D)	(D)	...	...	...	...
43 State.....organizations 1959...	...	...	...	...	...	...
44 1949...	...	...	...	...	...	...
45 Farm area irrigated directly.....acres 1959...	...	...	...	...	...	...
46 Farm water users served						
47 directly.....water users 1959...	...	...	...	...	...	...
1949...	...	...	...	...	...	...
48 City.....organizations 1959...	2	1	...	...	1	...
49 1949...	1	1	...	...	...	...
50 Farm area irrigated directly.....acres 1959...	(D)	(D)	...	...	(D)	...
51 Farm water users served						
52 directly.....water users 1959...	(D)	(D)	...	...	(D)	...
1949...	(D)	(D)	...	...	(D)	...

D Data not shown to avoid disclosure of information for individual organizations.
NA Not available.

State Table 2.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Continued

Item (For definitions and explanations, see text)	Idaho, total	Columbia River (excluding Yakima River) and Snake River below Weiser	Snake River, Weiser to King Hill	Snake River, King Hill to American Falls	Snake River above American Falls	Bonneville Basin and Bear River
		(I-C and I-E)	(I-F)	(I-G)	(I-H)	(III-D and III-E)
		TYPE OF SERVICE, 1959				
1 All water directly from surface and ground water sources.....organizations...	726	110	171	93	204	15
2 Total water conveyed.....acre-feet...	13,281,058	431,492	3,068,791	4,329,487	4,937,633	591,214
3 Water delivered.....acre-feet...	10,593,765	313,402	2,363,091	3,209,225	4,248,680	459,366
4 To farm and residential users only.....organizations...	673	108	151	86	185	14
5 acre-feet...	4,640,741	293,880	586,834	1,093,482	2,346,694	319,851
6 To farm and residential users and other irrigation organizations.....organizations...	47	1	18	6	18	6
7 Water to farm and residential users.....acre-feet...	3,811,043	1,656	1,432,817	1,706,380	645,941	24,242
8 Water to other irrigation organizations.....acre-feet...	1,968,856	1,457	341,490	399,577	1,118,105	108,222
9 To other irrigation organizations only.....organizations...	6	1	2	1	1	1
10 acre-feet...	173,125	16,409	1,950	9,786	137,940	7,040
11 Part of water from other organizations.....organizations...	65	4	36	3	21	3
12 Total water conveyed.....acre-feet...	2,296,945	41,623	978,921	634,650	661,723	10,908
13 From surface and ground water sources.....acre-feet...	871,115	9,356	631,356	251,852	1-8,241	1-845
14 From other irrigation organizations.....acre-feet...	1,425,830	32,267	347,565	382,798	669,864	11,753
15 Water delivered.....acre-feet...	2,006,786	40,403	942,307	423,383	598,088	1,685
16 To farm and residential users only.....organizations...	57	3	33	3	16	3
17 acre-feet...	1,635,569	18,088	896,997	423,383	295,216	1,885
18 To farm and residential users and other irrigation organizations.....organizations...	8	1	3	...	5	...
19 Water to farm and residential users.....acre-feet...	283,653	...	27,147	...	256,506	...
20 Water to other irrigation organizations.....acre-feet...	87,564	22,315	18,163	...	47,086	...
21 To other irrigation organizations only.....organizations...	...	...	...	...	...	...
22 acre-feet...	...	...	...	...	...	...
23 All of water from other organizations.....organizations...	129	5	22	7	69	27
24 Total water conveyed.....acre-feet...	1,143,473	21,690	76,479	26,565	872,711	154,852
25 Water delivered.....acre-feet...	1,016,273	5,240	63,784	23,042	792,539	131,668
26 To farm and residential users only.....organizations...	113	5	22	7	56	24
27 acre-feet...	579,119	5,240	63,784	23,042	423,396	59,657
28 To farm and residential users and other irrigation organizations.....organizations...	14	...	...	...	11	...
29 Water to farm residential users.....acre-feet...	158,849	...	...	...	138,164	20,685
30 Water to other irrigation organizations.....acre-feet...	280,856	...	...	...	229,530	51,326
31 To other irrigation organizations only.....organizations...	2	...	...	...	2	...
32 acre-feet...	1,449	...	...	...	1,449	...
33 No water conveyed.....organizations...	7	...	5	1	1	...
WATER FROM OTHER SOURCES						
34 Organizations reporting no water from other sources used on land served by the organization.....organizations...	793	97	202	91	257	151
35 acres served...	2,102,467	74,601	770,301	796,505	646,559	174,301
36 acres irrigated...	1,938,766	64,590	749,600	717,328	602,600	158,849
37 Water delivered to farms.....acre-feet...	9,295,415	261,312	3,721,273	3,141,713	3,502,672	409,235
38 acre-feet per acre...	4.8	4.5	5.0	4.4	5.8	2.6
39 Organizations reporting water from other sources used on land served by the organization.....organizations...	119	21	25	11	34	30
40 acres served...	423,745	15,251	194,562	43,724	129,188	43,320
41 acres irrigated...	403,650	12,936	191,273	38,314	123,224	40,203
42 Water delivered to farms.....acre-feet...	1,710,738	67,544	879,119	128,295	581,427	61,912
43 acre-feet per acre...	4.2	5.2	4.6	3.3	4.7	1.5

¹Water was transferred to the basin and released to natural stream channels in excess of the quantity of surface water withdrawn by irrigation organizations. The net effect was to increase the available surface water supply in the basin or State.

State Table 2.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Continued

Item (For definitions and explanations, see text)		Idaho, total	Columbia River (excluding Yakima River) and Snake River below Weiser	Snake River, Weiser to King Hill	Snake River, King Hill to American Falls	Snake River above American Falls	Bonneville Basin and Bear River
			(I-C and I-E)	(I-F)	(I-G)	(I-H)	(III-D and III-E)
WATER DELIVERED PER ACRE							
Organizations reporting NO water from other sources used on same land:							
1	0.1 to 0.9 acre-feet per acre.....organizations...	31	2	4	2	14	9
2	.....acres irrigated...	29,161	397	2,557	3,570	5,042	17,595
3	1.0 to 1.9 acre-feet per acre.....organizations...	117	10	19	15	33	41
4	.....acres irrigated...	126,289	3,057	23,478	21,931	27,738	50,985
5	2.0 to 2.9 acre-feet per acre.....organizations...	149	16	33	16	38	46
6	.....acres irrigated...	146,782	19,315	15,282	18,382	41,729	52,074
7	3.0 to 3.9 acre-feet per acre.....organizations...	112	16	20	16	30	30
8	.....acres irrigated...	240,532	15,988	28,827	97,575	81,239	16,903
9	4.0 to 4.9 acre-feet per acre.....organizations...	105	17	37	12	30	10
10	.....acres irrigated...	553,046	8,298	249,158	361,409	82,439	2,743
11	5.0 to 5.9 acre-feet per acre.....organizations...	89	8	35	8	33	7
12	.....acres irrigated...	408,167	8,024	335,272	205,362	55,733	6,076
13	6.0 to 6.9 acre-feet per acre.....organizations...	71	11	27	4	26	3
14	.....acres irrigated...	216,875	3,600	66,748	1,595	143,762	1,170
15	7.0 to 7.9 acre-feet per acre.....organizations...	37	6	18	2	8	3
16	.....acres irrigated...	79,827	2,360	20,043	335	46,519	10,570
17	8.0 to 9.9 acre-feet per acre.....organizations...	51	7	9	7	26	2
18	.....acres irrigated...	95,036	2,176	8,235	4,315	79,577	733
19	10.0 or more acre-feet per acre.....organizations...	31	4	...	9	19	...
20	.....acres irrigated...	43,051	1,375	...	2,854	38,822	...
SIZE OF ORGANIZATION							
Size of organization (number of farm irrigation water users served directly):							
21	None.....organizations...	15	1	7	2	4	1
22	1 to 3.....organizations...	249	53	53	34	56	53
23	4 to 5.....organizations...	582	123	127	79	127	126
24	6 to 9.....organizations...	268	35	73	34	77	49
25	10 to 29.....organizations...	1,563	203	439	194	459	268
26	30 to 39.....organizations...	227	20	56	36	53	35
27	40 to 49.....organizations...	3,621	276	894	298	1,778	837
28	50 to 59.....organizations...	106	4	27	6	51	19
29	60 to 69.....organizations...	5,790	247	1,419	389	2,619	947
30	70 to 79.....organizations...	38	4	9	5	14	8
31	80 to 89.....organizations...	6,059	895	1,626	818	2,044	1,361
32	90 to 99.....organizations...	15	1	4	2	6	1
33	100 to 999.....organizations...	8,771	300	2,741	1,541	3,330	370
34	1,000 or more.....organizations...	9	1	5	4	...	...
35	.....water users...	19,862	1,861	14,776	7,351	1,000	...
Size of organization (acre-feet of water delivered directly to farms):							
36	None.....organizations...	15	1	7	2	4	1
37	1 to 299 acre-feet.....organizations...	140	18	35	16	31	31
38	300 to 999 acre-feet.....organizations...	22,611	2,870	5,727	2,783	5,789	5,442
39	1,000 to 2,999 acre-feet.....organizations...	187	28	38	24	36	61
40	3,000 to 9,999 acre-feet.....organizations...	111,155	17,791	21,566	12,918	21,227	37,653
41	10,000 to 29,999 acre-feet.....organizations...	212	34	53	25	52	49
42	30,000 to 99,999 acre-feet.....organizations...	379,667	63,531	99,221	44,316	91,958	81,841
43	100,000 to 299,999 acre-feet.....organizations...	225	34	59	18	85	32
44	300,000 to 999,999 acre-feet.....organizations...	1,254,319	176,236	333,543	98,726	487,469	170,404
45	1,000,000 to 2,999,999 acre-feet.....organizations...	88	4	27	8	44	5
46	3,000,000 to 9,999,999 acre-feet.....organizations...	1,547,955	68,428	474,616	154,674	779,932	70,305
47	10,000,000 to 29,999,999 acre-feet.....organizations...	40	...	7	5	3	3
48	30,000,000 to 99,999,999 acre-feet.....organizations...	1,979,238	...	372,317	220,915	1,334,244	105,502
49	100,000 or more acre-feet.....organizations...	20	...	8	6	8	...
50	.....acre-feet...	5,711,208	...	3,293,402	2,735,676	1,363,480	...
Size of organization (acre-feet of water conveyed):							
51	None.....organizations...	7	...	5	1	1	...
52	1 to 299 acre-feet.....organizations...	115	14	29	11	36	25
53	300 to 999 acre-feet.....organizations...	20,231	2,308	5,394	1,898	6,622	4,319
54	1,000 to 2,999 acre-feet.....organizations...	173	27	32	26	32	54
55	3,000 to 9,999 acre-feet.....organizations...	101,339	17,790	18,054	13,561	19,414	32,220
56	10,000 to 29,999 acre-feet.....organizations...	208	31	46	24	52	58
57	30,000 to 99,999 acre-feet.....organizations...	369,929	62,408	85,060	42,037	88,204	94,380
58	100,000 to 299,999 acre-feet.....organizations...	230	40	65	18	76	31
59	300,000 to 999,999 acre-feet.....organizations...	1,265,329	227,264	333,935	95,582	430,165	191,302
60	1,000,000 to 2,999,999 acre-feet.....organizations...	108	4	34	11	51	8
61	3,000,000 to 9,999,999 acre-feet.....organizations...	1,814,468	55,988	565,034	174,481	878,577	140,388
62	10,000,000 to 29,999,999 acre-feet.....organizations...	98	13	13	6	6	6
63	30,000,000 to 99,999,999 acre-feet.....organizations...	2,853,797	143,929	550,226	312,576	1,586,423	297,840
64	100,000 or more acre-feet.....organizations...	30	...	10	7	15	...
65	.....acre-feet...	10,353,325	...	3,804,120	4,350,567	3,464,165	...

State Table 3.—LAND IRRIGATED BY SOURCE OF WATER, BY DRAINAGE BASINS: CENSUS OF 1959

	Item (For definitions and explanations, see text)	Idaho, total	Columbia River (excluding Yakima River) and Snake River below Weiser	Snake River, Weiser to King Hill	Snake River, King Hill to American Falls	Snake River above American Falls	Bonneville Basin and Bear River
			(I-C and I-E)	(I-F)	(I-G)	(I-H)	(III-D and III-E)
1	Total acres irrigated.....farms reporting...	25,383	1,281	8,545	7,020	6,735	1,802
2	acres...	2,576,580	152,028	611,477	855,111	797,503	160,461
3	Acres irrigated by sprinklers.....farms reporting...	2,180	598	365	176	753	288
4	acres...	215,595	11,876	17,921	34,256	126,764	21,778
5	Sprinklers only.....farms reporting...	1,085	532	111	50	315	77
6	acres...	119,943	11,948	6,038	16,809	76,907	8,241
	LAND IRRIGATED, BY SOURCE OF WATER TO INDIVIDUAL FARMS, 1959						
7	Ground water sources on farm.....farms reporting...	2,557	108	490	881	853	225
8	acres...	386,945	4,157	27,609	173,532	162,084	19,563
9	Ground water sources on farm only.....farms reporting...	1,266	67	189	480	430	100
10	acres...	241,673	1,480	11,634	115,992	102,277	10,290
11	Surface sources on farm.....farms reporting...	2,749	717	871	364	567	230
12	acres...	327,281	111,952	82,964	44,946	65,243	22,176
13	Surface sources on farm only.....farms reporting...	1,882	656	520	203	379	124
14	acres...	245,191	97,159	57,314	31,298	45,871	13,549
15	Irrigation organization sources.....farms reporting...	22,051	532	7,802	6,270	5,876	1,571
16	acres...	1,862,354	35,919	500,904	636,633	570,176	118,722
17	Irrigation organization sources only.....farms reporting...	20,306	479	7,259	5,846	5,374	1,348
18	acres...	1,662,383	24,076	450,761	581,898	505,145	100,443
19	Both farm ground water sources and surface sources.....farms reporting...	178	26	39	62	44	7
20	acres...	40,483	5,953	5,947	14,316	13,288	979
21	Both irrigation organization and farm ground water or farm surface sources.....farms reporting...	1,751	53	538	429	508	223
22	acres...	386,850	23,360	85,821	111,547	130,922	35,200

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950

Item (For definitions and explanations, see text)	Idaho, total						
	All types	Municipal		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users	
Irrigation organizations.....organizations 1959.....	927	497	367	23	4	12	6
1949.....	1,064	648	348	54	4	11	10
Service area, 1959:							
Area served, as reported							
by organizations.....acres.....	2,432,113	244,106	1,417,700	691,544	84,162	359,654	44,601
Area irrigated, as reported							
by organizations.....acres.....	2,299,457	211,622	1,295,602	676,471	76,767	350,674	38,995
Water users served, 1959, total.....water users.....	81,467	3,808	44,139	30,000	714	14,521	2,806
Farm irrigation water users.....water users.....	43,525	2,589	30,979	18,136	714	8,836	1,107
Residential water users.....water users.....	37,943	1,207	23,124	11,713	...	5,543	1,699
Other water users.....water users.....	199	12	36	151	...	142	...
TYPE OF SERVICE, 1959							
All water directly from surface and ground							
water sources.....organizations.....	726	428	251	40	2	11	5
Total water conveyed.....acres-foot.....	13,281,058	891,655	7,717,437	4,153,655	253,019	2,371,507	265,292
Water delivered.....acres-foot.....	10,593,765	748,495	6,203,673	3,232,076	230,104	1,931,092	179,417
To farm and residential users							
only.....organizations.....	673	422	211	33	2	8	5
acres-foot.....	4,640,741	717,010	2,135,385	1,378,825	230,104	530,166	179,417
To farm and residential users and other							
irrigation organizations.....organizations.....	47	5	36	6	...	3	...
Water to farm and residential							
users.....acres-foot.....	3,811,043	17,468	2,472,289	1,321,286	...	950,640	...
Water to other irrigation							
organizations.....acres-foot.....	1,968,856	13,193	1,433,484	522,179	...	450,286	...
To other irrigation organizations							
only.....organizations.....	6	1	4	1	...	...	...
acres-foot.....	173,125	824	162,515	9,786	...	...	...
Part of water from other							
organizations.....organizations.....	65	21	35	9	...	1	...
Total water conveyed.....acres-foot.....	2,296,945	68,144	1,383,836	844,965	...	186,600	...
From surface and ground water							
sources.....acres-foot.....	871,115	14,790	240,108	616,217	...	85,659	...
From other irrigation organizations.....acres-foot.....	1,425,830	53,354	1,143,728	228,748	...	...	...
Water delivered.....acres-foot.....	2,006,786	59,938	1,086,962	859,886	...	171,698	...
To farm and residential users							
only.....organizations.....	79	21	28	8	...	1	...
acres-foot.....	1,635,597	59,938	753,884	821,747	...	171,698	...
To farm and residential users and other							
irrigation organizations.....organizations.....	8	...	7	1	...	...	...
Water to farm and residential							
users.....acres-foot.....	283,653	...	271,653	12,000	...	...	...
Water to other irrigation							
organizations.....acres-foot.....	87,564	...	61,425	26,139	...	...	...
To other irrigation organizations							
only.....organizations.....	...	...	...	...	...	...	...
acres-foot.....	...	...	...	...	...	...	...
All of water from other organizations.....organizations.....	329	48	77	3	...	...	1
Total water conveyed.....acres-foot.....	1,148,473	75,986	1,049,063	22,938	...	...	486
Water delivered.....acres-foot.....	1,016,273	65,953	942,274	6,860	...	...	486
To farm and residential users							
only.....organizations.....	113	42	67	3	...	...	1
acres-foot.....	575,119	62,907	504,866	6,860	...	...	486
To farm and residential users and other							
irrigation organizations.....organizations.....	14	4	10	...	...	...	...
Water to farm and residential							
users.....acres-foot.....	158,849	359	158,490	...	...	...	...
Water to other irrigation							
organizations.....acres-foot.....	280,856	1,238	279,618	...	...	...	...
To other irrigation organizations							
only.....organizations.....	2	...	...	...	...	...	...
acres-foot.....	1,449	1,449	...	...	...	...	...
No water conveyed.....organizations.....	7	...	4	1	2	...	...
WATER FROM OTHER SOURCES							
Organizations reporting no water from other							
sources used on land served by the							
organization.....organizations.....	793	440	302	44	2	10	5
acres served.....	2,102,283	213,283	1,261,949	522,470	84,162	233,548	20,601
water delivered to farms (acres-foot).....	1,938,766	184,235	1,153,872	508,897	76,767	224,568	14,995
acres-foot per acre.....	9,295,415	726,687	5,678,311	2,636,036	230,104	1,053,233	24,277
Organizations reporting water from other							
sources used on land served by the							
organization.....organizations.....	119	54	57	7	...	2	1
acres served.....	423,745	31,181	178,707	183,897	...	133,961	30,000
acres irrigated.....	403,650	27,747	165,546	182,357	...	133,961	30,000
water delivered to farms (acres-foot).....	1,710,738	125,905	580,821	848,012	...	598,714	156,000
acres-foot per acre.....	4.2	4.5	3.6	4.7	...	4.5	5.2
NEW CAPITAL INVESTMENT, 1950-1959							
Expenditures for additional new works and							
equipment for irrigation and drainage,							
January 1, 1950-December 31, 1959.....organizations.....	382	164	181	32	2	13	3
By U. S. B. R. ....dollars.....	18,471,044	...	7,600	1,769,154	16,694,290	1,776,752	...
By water users organizations.....dollars.....	6,056,815	237,721	3,272,341	2,367,503	...	1,238,298	179,250

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

Item (For definitions and explanations, see text)	Idaho, total						
	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users	
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
Total entering conveyance systems.....organizations... acre-feet...	920 14,214,626	497 906,445	363 7,977,557	52 4,832,313	2 253,019	12 2,758,367	6 265,292
From another drainage basin.....organizations... acre-feet...	11 140,305	2 3,889	7 25,215	1 101,201	...	1 101,201	1 10,000
From drainage basin.....D. B. No.... ...	...	VI-C I-H	...	I-F...	...	...	...
From sources within basin.....organizations... acre-feet...	783 14,074,321	448 902,556	279 7,932,342	30 4,731,112	2 253,019	12 2,697,166	4 255,292
Surface water.....organizations... acre-feet...	734 13,527,060	415 802,362	265 7,741,803	49 4,669,429	2 58,898	12 2,606,459	3 254,568
Ground water.....organizations... acre-feet...	69 547,261	40 100,194	23 190,539	3 61,683	2 194,121	2 50,707	2 724
From other organizations in the basin.....organizations receiving... acre-feet...	191 2,511,850	69 129,340	112 2,192,779	9 189,245	...	...	1 486
Total leaving conveyance systems.....organizations... acre-feet...	920 14,214,626	497 1,019,081	363 8,213,294	52 4,463,454	2 253,019	12 2,308,071	6 265,778
Conveyance loss in basin.....organizations... acre-feet...	841 2,948,184	456 160,315	334 1,799,290	46 879,789	2 22,915	14 640,540	3 85,875
Conveyed to another drainage basin.....organizations... acre-feet...	12 145,697	1 800	8 105,076	3 39,781	...	1 11,997	...
To drainage basin number.....D. B. No.... ...	...	...	...	...	...	...	...
Delivered for use in the basin.....organizations... acre-feet...	911 11,120,785	494 897,966	399 6,308,928	50 3,543,884	2 230,104	12 1,655,574	6 179,903
To farm irrigation water users.....organizations... acre-feet...	911 10,884,661	494 851,977	399 6,215,646	50 3,413,447	2 230,104	12 1,612,172	6 173,487
To domestic water users.....organizations... acre-feet...	107 220,313	68 5,705	68 80,921	14 127,271	5 ...	5 40,332	5 6,416
For other use.....organizations... acre-feet...	29 15,811	4 284	20 12,361	5 3,166	...	3 3,070	...
Delivered to other irrigation organizations.....organizations delivering... acre-feet...	76 2,511,850	12 16,704	56 1,937,042	8 558,104	...	3 450,286	...
SIZE OF ORGANIZATION, 1959							
Size of organization (number of farm irrigation water users):							
None.....organizations...	23	8	10	3	2	...	...
1 to 3 water users.....organizations...	249	230	17	2	...	...	...
4 to 9 water users.....organizations...	268	205	59	4	...	...	...
10 to 29 water users.....organizations...	219	50	156	10	...	...	3
30 to 99 water users.....organizations...	106	4	87	12	1	2	2
100 to 299 water users.....organizations...	38	...	30	8	...	3	...
300 to 999 water users.....organizations...	15	...	5	9	...	4	...
1,000 or more water users.....organizations...	9	...	3	5	...	3	1
Size of organization (acre-feet of water delivered directly to farms):							
None.....organizations...	15	3	8	2	2	...	...
1 to 299 acre-feet.....organizations...	140	120	17	2	...	...	1
300 to 999 acre-feet.....organizations...	187	161	24	1	...	...	1
1,000 to 2,999 acre-feet.....organizations...	212	128	79	4	...	1	...
3,000 to 9,999 acre-feet.....organizations...	225	79	131	14	...	4	1
10,000 to 29,999 acre-feet.....organizations...	88	6	71	9	1	1	1
30,000 to 99,999 acre-feet.....organizations...	40	...	30	10	...	...	...
100,000 or more acre-feet.....organizations...	20	...	7	11	1	5	1
Size of organization (acre-feet of water conveyed):							
None.....organizations...	7	...	4	1	2	...	...
1 to 299 acre-feet.....organizations...	115	105	10	...	...	...	...
300 to 999 acre-feet.....organizations...	171	147	21	1	...	1	2
1,000 to 2,999 acre-feet.....organizations...	208	142	62	4	...	1	...
3,000 to 9,999 acre-feet.....organizations...	230	93	123	12	...	4	2
10,000 to 29,999 acre-feet.....organizations...	108	8	86	12	1	...	1
30,000 to 99,999 acre-feet.....organizations...	58	2	44	12	...	...	...
100,000 or more acre-feet.....organizations...	30	...	17	11	1	6	1

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

Item (For definitions and explanations, see text)	Columbia River above Snake River excluding Yakima River, and Snake River below Weiser, Idaho (I-C and I-E)							
	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other	
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users		
Irrigation organizations.....organizations 1959...	119	93	13	11	...	5	2	
1949...	145	124	7	10	1	NA	3	
Service area, 1959:								
Area served, as reported								
by organizations.....acres...	84,424	52,904	9,799	(D)	...	7,736	(D)	
Area irrigated, as reported								
by organizations.....acres...	72,098	45,987	7,853	(D)	...	7,307	(D)	
Water users served, 1959, total.....water users...	5,373	1,334	222	(D)	...	3,510	(D)	
Farm irrigation water users.....water users...	2,018	490	109	(D)	...	1,146	(D)	
Residential water users.....water users...	3,245	844	113	(D)	...	2,254	(D)	
Other water users.....water users...	110	...	...	(D)	...	110	...
TYPE OF SERVICE, 1959								
All water directly from surface and ground								
water sources.....organizations...	110	90	11	8	...	5	1	
Total water conveyed.....acre-feet...	431,492	290,964	87,333	(D)	...	24,025	(D)	
Water delivered.....acre-feet...	313,402	232,437	34,964	(D)	...	22,389	(D)	
To farm and residential users								
only.....organizations...	108	90	9	8	...	5	1	
acre-feet...	293,880	232,437	15,442	(D)	...	22,389	(D)	
To farm and residential users and other								
irrigation organizations.....organizations...	1	...	1	...	...	...	...
Water to farm and residential								
users.....acre-feet...	1,656	...	1,656	...	...	...	...
Water to other irrigation								
organizations.....acre-feet...	1,457	...	1,457	...	...	...	...
To other irrigation organizations								
only.....organizations...	1	...	1	...	...	...	...
acre-feet...	16,409	...	16,409	...	...	...	...
Part of water from other								
organizations.....organizations...	4	2	...	2	...	...	...
Total water conveyed.....acre-feet...	41,623	5,548	...	(D)	...	...	...
From surface and ground water								
sources.....acre-feet...	9,356	433	...	(D)	...	...	...
From other irrigation organizations.....acre-feet...	32,267	5,115	...	(D)	...	...	...
Water delivered.....acre-feet...	40,403	5,188	...	(D)	...	...	...
To farm and residential users								
only.....organizations...	3	2	...	1	...	...	...
acre-feet...	18,088	5,188	...	(D)	...	...	...
To farm and residential users and other								
irrigation organizations.....organizations...	1	...	...	1	...	...	...
Water to farm and residential								
users.....acre-feet...	...	...	...	...	...	...	...
Water to other irrigation								
organizations.....acre-feet...	22,315	...	...	(D)	...	...	...
To other irrigation organizations								
only.....organizations...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
All of water from other organizations.....organizations...	5	1	2	1	...	...	1
Total water conveyed.....acre-feet...	21,690	1,457	4,249	(D)	...	...	(D)
Water delivered.....acre-feet...	5,240	1,312	3,442	...	...	...	(D)
To farm and residential users								
only.....organizations...	5	1	2	1	...	...	1
acre-feet...	5,240	1,312	3,442	...	...	...	(D)
To farm and residential users and other								
irrigation organizations.....organizations...	...	...	...	...	...	...	...
Water to farm and residential								
users.....acre-feet...	...	...	...	...	...	...	...
Water to other irrigation								
organizations.....acre-feet...	...	...	...	...	...	...	...
To other irrigation organizations								
only.....organizations...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
No water conveyed.....organizations...	...	...	...	...	...	...	...
WATER FROM OTHER SOURCES								
Organizations reporting no water from other								
sources used on the land served by the								
organization.....organizations...	97	74	10	11	...	5	2	
acres served...	74,601	39,488	7,964	(D)	...	14,237	(D)	
acres irrigated...	64,590	34,886	6,018	(D)	...	7,307	(D)	
water delivered to farms (acre-feet)...	261,312	173,358	13,826	(D)	...	17,676	(D)	
acre-feet per acre...	4.0	5.0	2.3	(D)	...	2.4	(D)	
Organizations reporting water from other								
sources used on land served by the								
organization.....organizations...	21	19	2	...	...	...	...
acres served...	15,251	13,416	1,835	...	...	...	...
acres irrigated...	12,936	11,101	1,835	...	...	...	...
water delivered to farms (acre-feet)...	67,544	62,829	4,715	...	...	...	...
acre-feet per acre...	5.2	5.7	2.6	...	...	...	...
NEW CAPITAL INVESTMENT, 1950-1959								
Expenditures for additional new works and								
equipment for irrigation and drainage,								
January 1, 1950-December 31, 1959.....organizations...	63	50	5	7	...	4	1	
By U. S. B. R.....dollars...	844,351	...	...	(D)	...	844,351	(D)
By water users organizations.....dollars...	806,216	64,623	85,983	(D)	...	632,360	(D)	

See footnotes at end of table.

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

Item (For definitions and explanations, see text)	Columbia River above Snake River excluding Yakima River, and Snake River below Weiser, Idaho (I-C and I-E)						
	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users	
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
Total entering conveyance systems.....organizations...	119	93	13	11	...	5	2
acre-feet...	454,624	291,397	91,157	(D)	...	24,025	(D)
From another drainage basin.....organizations...	2	...	1	1	...	...	...
acre-feet...	26,139	...	3,824	(D)	...	...	...
From drainage basin.....D. B. No.....	...	...	...	...	...	...	...
From sources within basin.....organizations...	113	92	11	9	...	5	1
acre-feet...	428,485	291,397	87,333	(D)	...	24,025	(D)
Surface water.....organizations...	112	92	11	9	...	5	...
acre-feet...	427,761	291,397	87,333	(D)	...	24,025	...
Ground water.....organizations...	1	...	...	...	...	...	1
acre-feet...	724	...	...	...	...	...	(D)
From other organizations in the basin.....organizations receiving...	7	3	1	2	...	...	1
acre-feet...	40,181	6,572	425	(D)	...	...	(D)
Total leaving conveyance systems.....organizations...	119	93	13	11	...	5	2
acre-feet...	454,624	297,969	73,716	(D)	...	24,025	(D)
Conveyance loss in basin.....organizations...	104	87	11	6	...	2	...
acre-feet...	83,341	59,032	16,335	(D)	...	1,556	...
Conveyed to another drainage basin.....organizations...	2	...	1	1	...	...	...
acre-feet...	52,339	...	36,841	(D)	...	...	...
To drainage basin number.....D. B. No.....	...	...	...	...	...	...	...
Delivered for use in the basin.....organizations...	116	93	12	9	...	5	2
acre-feet...	318,944	238,937	20,540	(D)	...	22,469	(D)
To farm irrigation water users.....organizations...	116	93	12	9	...	5	2
acre-feet...	308,858	236,187	18,541	(D)	...	17,675	(D)
To domestic water users.....organizations...	10	3	2	2	...	2	1
acre-feet...	10,006	2,750	1,999	(D)	...	4,714	(D)
For other use.....organizations...	1	...	...	1	...	1	...
acre-feet...	80	...	...	(D)	...	80	...
Delivered to other irrigation organizations.....organizations delivering...	3	...	2	1	...	...	...
acre-feet...	40,181	...	17,866	(D)	...	...	...
SIZE OF ORGANIZATION, 1959							
Size of organization (number of farm irrigation water users):							
None.....organizations...	3	2	1	(D)	...	...	(D)
1 to 3 water users.....organizations...	53	50	3	(D)	...	...	(D)
4 to 9 water users.....organizations...	35	33	2	(D)	...	...	(D)
10 to 29 water users.....organizations...	18	6	7	(D)	...	...	(D)
30 to 99 water users.....organizations...	4	2	...	(D)	...	1	(D)
100 to 299 water users.....organizations...	3	...	...	(D)	...	2	(D)
300 to 999 water users.....organizations...	2	...	...	(D)	...	2	(D)
1,000 or more water users.....organizations...	1	...	...	(D)	...	...	(D)
Size of organization (acre-feet of water delivered directly to farms):							
None.....organizations...	1	...	1	(D)	...	...	(D)
1 to 299 acre-feet.....organizations...	18	12	5	(D)	...	...	(D)
300 to 999 acre-feet.....organizations...	28	24	2	(D)	...	1	(D)
1,000 to 2,999 acre-feet.....organizations...	34	29	3	(D)	...	1	(D)
3,000 to 9,999 acre-feet.....organizations...	34	27	2	(D)	...	3	(D)
10,000 to 29,999 acre-feet.....organizations...	4	1	...	(D)	...	...	(D)
30,000 to 99,999 acre-feet.....organizations...	...	...	...	...	...	...	(D)
100,000 or more acre-feet.....organizations...	...	...	...	...	...	...	...
Size of organization (acre-feet of water conveyed):							
None.....organizations...	...	...	...	...	...	...	(D)
1 to 299 acre-feet.....organizations...	14	10	4	(D)	...	...	(D)
300 to 999 acre-feet.....organizations...	27	22	2	(D)	...	1	(D)
1,000 to 2,999 acre-feet.....organizations...	31	27	2	(D)	...	1	(D)
3,000 to 9,999 acre-feet.....organizations...	40	33	4	(D)	...	3	(D)
10,000 to 29,999 acre-feet.....organizations...	4	...	...	(D)	...	...	(D)
30,000 to 99,999 acre-feet.....organizations...	3	1	1	(D)	...	...	(D)
100,000 or more acre-feet.....organizations...	...	...	...	...	...	...	...

D Data not shown to avoid disclosure of information for individual organizations.
NA Not available.

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

Snake River, Weiser, Idaho to King Hill, Idaho (1-F)								
Item (For definitions and explanations, see text)	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other	
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users		
Irrigation organizations.....organizations 1959...	234	113	91	28	1	3	1	
1949...	269	151	85	27	4	NA	2	
Service area, 1959:								
Area served, as reported								
by organizations.....acres...	606,613	48,655	166,427	385,531	...	220,195	6,000	
Area irrigated, as reported								
by organizations.....acres...	582,622	42,466	153,249	380,907	...	216,531	6,000	
Water users served, 1959, total.....water users...	29,935	763	7,956	21,191	...	8,364	25	
Farm irrigation water users.....water users...	16,618	634	3,642	12,317	...	5,168	25	
Residential water users.....water users...	13,295	122	4,299	8,834	...	3,196	...	
Other water users.....water users...	62	7	15	40	...	32	...	
TYPE OF SERVICE, 1959								
All water directly from surface and ground								
water sources.....organizations...	171	88	65	17	...	2	1	
Total water conveyed.....acre-feet...	3,068,791	161,913	1,044,913	1,851,965	...	1,417,233	10,000	
Water delivered.....acre-feet...	2,363,091	142,426	872,133	1,338,832	...	1,044,816	9,700	
To farm and residential users								
only.....organizations...	151	86	51	13	...	...	1
.....acre-feet...	586,834	137,830	383,811	55,493	...	...	9,700
To farm and residential users and other								
irrigation organizations.....organizations...	18	1	13	4	...	2	...	
Water to farm and residential								
users.....acre-feet...	1,432,817	332	322,649	1,109,836	...	919,190	...	
Water to other irrigation								
organizations.....acre-feet...	341,490	3,440	164,547	173,503	...	125,626	...	
To other irrigation organizations								
only.....organizations...	2	1	1	...	...	...	...
.....acre-feet...	1,950	824	1,126	...	...	...	...
Part of water from other								
organizations.....organizations...	36	17	11	8	...	1	...	
Total water conveyed.....acre-feet...	978,921	47,530	100,186	831,205	...	186,860	...	
From surface and ground water								
sources.....acre-feet...	631,356	7,419	4,280	619,697	...	124,419	...	
From other irrigation organizations.....acre-feet...	347,565	40,111	95,906	211,548	...	62,441	...	
Water delivered.....acre-feet...	942,307	41,233	76,403	824,671	...	171,698	...	
To farm and residential users								
only.....organizations...	33	17	9	7	...	...	...
.....acre-feet...	896,997	41,233	46,917	808,847	...	171,698	...	
To farm and residential users and other								
irrigation organizations.....organizations...	3	...	2	1	...	...	...
Water to farm and residential								
users.....acre-feet...	27,147	...	15,147	12,000	...	...	...
Water to other irrigation								
organizations.....acre-feet...	18,163	...	14,339	3,824	...	...	...
To other irrigation organizations								
only.....organizations...	...	...	...	...	...	...	...
.....acre-feet...	...	...	...	...	...	...	...
All of water from other organizations.....organizations...	22	8	12	2	...	...	...
Total water conveyed.....acre-feet...	76,479	24,672	44,367	7,440	...	...	...
Water delivered.....acre-feet...	63,784	21,168	35,756	6,860	...	...	...
To farm and residential users								
only.....organizations...	22	8	12	2	...	...	...
.....acre-feet...	63,784	21,168	35,756	6,860	...	...	...
To farm and residential users and other								
irrigation organizations.....organizations...	...	...	...	...	...	...	...
Water to farm and residential								
users.....acre-feet...	...	...	...	...	...	...	...
Water to other irrigation								
organizations.....acre-feet...	...	...	...	...	...	...	...
To other irrigation organizations								
only.....organizations...	...	...	...	...	...	...	...
.....acre-feet...	...	...	...	...	...	...	...
No water conveyed.....organizations...	5	...	3	1	1	...	...
WATER FROM OTHER SOURCES								
Organizations reporting no water from other								
sources used on the land served by the								
organization.....organizations...	202	105	73	23	...	2	1	
.....acres served...	770,301	42,646	481,316	234,339	...	97,783	12,000	
.....acres irrigated...	749,599	36,866	470,818	229,915	...	96,119	12,000	
Water delivered to farms (acre-feet)...	3,721,273	171,599	2,340,832	1,192,352	...	502,616	16,490	
.....acre-feet per acre...	5.0	4.7	4.9	5.2	...	5.3	1.4	
Organizations reporting water from other								
sources used on land served by the								
organization.....organizations...	25	7	14	4	...	1	...	
.....acres served...	194,562	6,009	20,931	167,622	...	130,267	...	
.....acres irrigated...	191,273	5,600	18,251	167,422	...	130,267	...	
Water delivered to farms (acre-feet)...	879,119	27,067	77,377	774,675	...	596,714	...	
.....acre-feet per acre...	4.6	4.8	4.2	4.6	...	4.5	...	
NEW CAPITAL INVESTMENT, 1950-1959								
Expenditures for additional new works and								
equipment for irrigation and drainage,								
January 1, 1950-December 31, 1959.....organizations...	89	32	40	16	1	3	...	
By U. S. B. R.....dollars...	7,709,803	...	...	924,803	6,785,000	924,803	...
By water users organizations.....dollars...	1,205,914	35,518	417,651	752,745	...	225,314	...	

See footnote at end of table.

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

Item (For definitions and explanations, see text)	Snake River, Weiser, Idaho to King Hill, Idaho (I-F)						
	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users	
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
Total entering conveyance systems.....organizations...	228	113	87	27	...	3	1
acre-feet...	3,762,588	169,332	1,049,193	2,534,063	...	1,604,093	10,000
From another drainage basin.....organizations...	5	...	2	2	...	1	...
acre-feet...	184,960	...	53,999	121,001	...	121,001	10,000
From drainage basin.....D. B. No.....	...	...	...	...	...	...	...
From sources within basin.....organizations...	203	105	74	24	...	3	...
acre-feet...	3,577,628	169,332	995,234	2,413,062	...	1,502,892	...
Surface water.....organizations...	201	104	73	24	...	3	...
acre-feet...	3,534,440	169,047	983,114	2,382,279	...	1,483,085	...
Ground water.....organizations...	6	1	3	2	...	1	...
acre-feet...	43,188	285	12,120	30,785	...	19,807	...
From other organizations in the basin..... organizations receiving...	55	25	23	7	...	...	...
acre-feet...	361,603	64,783	140,273	156,547	...	...	...
Total leaving conveyance systems.....organizations...	228	113	87	27	...	3	1
acre-feet...	3,762,588	229,851	1,009,454	2,513,283	...	1,478,467	10,000
Conveyance loss in basin.....organizations...	200	99	75	25	...	3	1
acre-feet...	696,477	29,276	196,338	470,563	...	372,622	300
Conveyed to another drainage basin.....organizations...	4	...	1	3	...	1	...
acre-feet...	50,422	...	3,824	46,998	...	11,997	...
To drainage basin number.....D. B. No.....	...	...	...	...	...	...	...
Delivered for use in the basin.....organizations...	226	112	86	27	...	3	1
acre-feet...	3,015,689	200,975	809,292	1,996,122	...	1,093,888	9,700
To farm irrigation water users.....organizations...	226	112	86	27	...	3	1
acre-feet...	2,860,600	198,666	776,730	1,875,504	...	1,055,895	9,700
To domestic water users.....organizations...	43	8	25	10	...	2	...
acre-feet...	146,979	1,897	27,550	117,532	...	34,993	...
For other use.....organizations...	14	1	9	4	...	2	...
acre-feet...	8,110	12	5,012	3,086	...	3,000	...
Delivered to other irrigation organizations..... organizations delivering...	21	2	14	5	...	2	...
acre-feet...	361,603	4,264	180,012	177,327	...	125,626	...
SIZE OF ORGANIZATION, 1959							
Size of organization (number of farm irrigation water users):							
None.....organizations...	8	2	4	1	1	...	...
1 to 3 water users.....organizations...	53	45	6	2	...	...	...
4 to 9 water users.....organizations...	73	49	20	4	...	...	...
10 to 29 water users.....organizations...	55	16	33	5	...	...	1
30 to 99 water users.....organizations...	27	1	19	7	...	...	...
100 to 299 water users.....organizations...	9	...	5	4	...	...	...
300 to 999 water users.....organizations...	4	...	2	2	...	2	...
1,000 or more water users.....organizations...	5	...	2	3	...	1	...
Size of organization (acre-feet of water delivered directly to farms):							
None.....organizations...	7	1	4	1	1	...	...
1 to 299 acre-feet.....organizations...	35	29	4	2	...	...	...
300 to 999 acre-feet.....organizations...	38	34	4	...	...	...	...
1,000 to 2,999 acre-feet.....organizations...	53	27	25	1	...	...	...
3,000 to 9,999 acre-feet.....organizations...	59	20	30	9	...	...	...
10,000 to 29,999 acre-feet.....organizations...	27	2	20	4	...	...	1
30,000 to 99,999 acre-feet.....organizations...	7	...	2	5	...	...	...
100,000 or more acre-feet.....organizations...	8	...	2	6	...	3	...
Size of organization (acre-feet of water conveyed):							
None.....organizations...	5	...	3	1	1	...	...
1 to 299 acre-feet.....organizations...	29	28	1	...	...	...	...
300 to 999 acre-feet.....organizations...	32	28	4	...	...	...	...
1,000 to 2,999 acre-feet.....organizations...	46	31	14	1	...	...	...
3,000 to 9,999 acre-feet.....organizations...	65	23	36	6	...	...	...
10,000 to 29,999 acre-feet.....organizations...	34	3	23	7	...	...	1
30,000 to 99,999 acre-feet.....organizations...	13	...	6	7	...	1	...
100,000 or more acre-feet.....organizations...	10	...	4	6	...	2	...

NA Not available.

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

Item (For definitions and explanations, see text)	Snake River, King Hill, Idaho to American Falls, Idaho (1-G)						
	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users	
Irrigation organizations.....organizations 1959...	104	68	28	6	2	3	...
Service area, 1959: 1949...	101	70	23	7	1	NA	...
Area served, as reported by organizations.....acres...	823,424	42,089	599,043	107,650	74,642	(D)	...
Area irrigated, as reported by organizations.....acres...	744,437	31,109	539,423	105,658	68,247	(D)	...
Water users served, 1959, total.....water users...	27,582	436	24,873	1,626	647	(D)	...
Farm irrigation water users.....water users...	10,378	380	7,851	1,500	647	(D)	...
Residential water users.....water users...	17,196	54	17,017	125	...	(D)	...
Other water users.....water users...	8	2	5	1	...	...	...
TYPE OF SERVICE, 1959							
All water directly from surface and ground water sources.....organizations...	93	62	24	6	1	3	...
Total water conveyed.....acre-feet...	4,329,487	128,851	2,918,726	1,045,609	236,301	(D)	...
Water delivered.....acre-feet...	3,209,225	108,825	2,068,721	814,657	217,022	(D)	...
To farm and residential users only.....organizations...	86	60	21	4	1	2	...
To farm and residential users and other irrigation organizations.....organizations...	1,093,482	96,883	330,816	448,761	217,022	(D)	...
Water to farm and residential users.....acre-feet...	6	2	3	1	...	1	...
Water to other irrigation organizations.....acre-feet...	1,706,380	9,655	1,665,275	31,450	...	(D)	...
To other irrigation organizations only.....organizations...	399,577	2,287	72,630	324,660	...	(D)	...
Water to farm and residential users and other irrigation organizations.....organizations...	1	...	...	1	...	...	...
Water to farm and residential users.....acre-feet...	9,786	...	...	9,786	...	...	...
Part of water from other organizations.....organizations...	3	...	3	...	...	...	...
Total water conveyed.....acre-feet...	634,650	...	634,650	...	...	...	...
From surface and ground water sources.....acre-feet...	251,852	...	251,852	...	...	...	...
From other irrigation organizations.....acre-feet...	382,798	...	382,798	...	...	...	...
Water delivered.....acre-feet...	423,383	...	423,383	...	...	...	...
To farm and residential users only.....organizations...	3	...	3	...	...	...	...
To farm and residential users and other irrigation organizations.....organizations...	423,383	...	423,383	...	...	...	...
Water to farm and residential users.....acre-feet...	...	...	...	...	...	...	...
Water to other irrigation organizations.....acre-feet...	...	...	...	...	...	...	...
To other irrigation organizations only.....organizations...	...	...	...	...	...	...	...
All of water from other organizations.....organizations...	7	6	1	...	...	...	...
Total water conveyed.....acre-feet...	26,565	4,965	21,600	...	...	...	...
Water delivered.....acre-feet...	23,042	4,682	18,360	...	...	...	...
To farm and residential users only.....organizations...	7	6	1	...	...	...	...
To farm and residential users and other irrigation organizations.....organizations...	23,042	4,682	18,360	...	...	...	...
Water to farm and residential users.....acre-feet...	...	...	...	...	...	...	...
Water to other irrigation organizations.....acre-feet...	...	...	...	...	...	...	...
To other irrigation organizations only.....organizations...	...	...	...	...	...	...	...
No water conveyed.....organizations...	1	...	...	...	1	...	...
WATER FROM OTHER SOURCES							
Organizations reporting no water from other sources used on the land served by the organization.....organizations...	91	61	25	4	1	3	...
Acres served.....acres...	796,505	35,765	584,623	101,475	74,642	(D)	...
Acres irrigated.....acres...	717,328	25,495	522,803	100,783	68,247	(D)	...
Water delivered to farms (acre-feet).....acre-feet per acre...	3,142,713	88,489	2,381,296	454,906	217,022	(D)	...
Organizations reporting water from other sources used on land served by the organization.....organizations...	4.4	3.5	4.6	4.5	3.2	(D)	...
Acres served.....acres...	43,724	6,324	28,300	9,100	...	...	...
Acres irrigated.....acres...	38,314	5,614	24,900	7,800	...	...	...
Water delivered to farms (acre-feet).....acre-feet per acre...	128,295	22,153	64,142	42,000	...	...	...
NEW CAPITAL INVESTMENT, 1950-1959	3.3	5.9	2.6	5.4	...	...	...
Expenditures for additional new works and equipment for irrigation and drainage, January 1, 1950-December 31, 1959.....organizations...	41	21	14	5	1	2	...
By U. S. B. R.....dollars...	9,909,290	...	...	...	9,909,290	...	...
By water users organizations.....dollars...	1,434,026	21,228	656,860	755,938	...	(D)	...

See footnotes at end of table.

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

Item (For definitions and explanations, see text)	Snake River, King Hill, Idaho to American Falls, Idaho (I-G)						
	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users	
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
Total entering conveyance systems.....organizations... acre-feet.....	103 4,581,339	68 128,851	28 3,170,578	6 1,045,609	1 236,301	3 (D)	...
From another drainage basin.....organizations... acre-feet.....	... ...	... ...	... ...	... ...	... ...	... ...	...
From drainage basin.....D. B. No.....	... ...	... ...	... ...	... ...	... ...	... ...	...
From sources within basin.....organizations... acre-feet.....	96 4,581,339	62 128,851	27 3,170,578	6 1,045,609	1 236,301	3 (D)	...
Surface water.....organizations... acre-feet.....	86 4,313,721	56 107,821	23 3,145,422	6 1,014,709	1 45,769	3 (D)	...
Ground water.....organizations... acre-feet.....	16 267,618	8 21,030	6 25,156	1 30,900	1 190,532	1 (D)	...
From other organizations in the basin.....organizations receiving... acre-feet.....	10 409,363	6 4,965	4 404,398	......	......	......	...
Total leaving conveyance systems.....organizations... acre-feet.....	103 4,581,339	68 131,529	29 3,502,346	5 711,163	1 236,301	3 (D)	...
Conveyance loss in basin.....organizations... acre-feet.....	84 1,259,233	56 20,309	21 1,008,493	6 211,152	1 19,279	3 (D)	...
Conveyed to another drainage basin.....organizations... acre-feet.....	3 73,759	... ...	2 53,959	1 19,800	......	......	...
To drainage basin number.....D. B. No.....	... ...	... ...	... ...	... ...	... ...	... ...	...
Delivered for use in the basin.....organizations... acre-feet.....	102 3,248,347	68 111,220	28 2,439,894	5 480,211	1 217,022	3 (D)	...
To farm irrigation water users.....organizations... acre-feet.....	102 3,209,758	68 110,642	28 2,402,508	5 479,586	1 217,022	3 (D)	...
To domestic water users.....organizations... acre-feet.....	16 36,529	7 578	8 35,326	1 625	... ...	1 (D)	...
For other use.....organizations... acre-feet.....	3 2,060	... ...	3 2,060	......	......	......	...
Delivered to other irrigation organizations.....organizations delivering... acre-feet.....	7 409,363	2 2,287	3 72,630	2 334,446	... ...	1 (D)	...
SIZE OF ORGANIZATION, 1959							
Size of organization (number of farm irrigation water users):							
None.....organizations... 1 to 3 water users.....organizations... 4 to 9 water users.....organizations... 10 to 29 water users.....organizations... 30 to 99 water users.....organizations... 100 to 299 water users.....organizations... 300 to 999 water users.....organizations... 1,000 or more water users.....organizations...	2 34 34 17 6 5 2 4	... 31 29 8 ... ... ... ...	... 3 9 9 3 1 4 3	1 1	1	(D) (D) (D) (D) (D) (D) (D) (D)	... ... ... ... ... ... ... ...
Size of organization (acre-feet of water delivered directly to farms):							
None.....organizations... 1 to 299 acre-feet.....organizations... 300 to 999 acre-feet.....organizations... 1,000 to 2,999 acre-feet.....organizations... 3,000 to 9,999 acre-feet.....organizations... 10,000 to 29,999 acre-feet.....organizations... 30,000 to 99,999 acre-feet.....organizations... 100,000 or more acre-feet.....organizations...	2 16 24 25 18 8 5 6	... 16 23 20 8 1 ... ...	... ... 1 5 10 7 ... 4	1 1	1 1	(D) (D) (D) (D) (D) (D) (D) (D)	... ... ... ... ... ... ... ...
Size of organization (acre-feet of water conveyed):							
None.....organizations... 1 to 299 acre-feet.....organizations... 300 to 999 acre-feet.....organizations... 1,000 to 2,999 acre-feet.....organizations... 3,000 to 9,999 acre-feet.....organizations... 10,000 to 29,999 acre-feet.....organizations... 30,000 to 99,999 acre-feet.....organizations... 100,000 or more acre-feet.....organizations...	1 11 26 24 25 11 6 7	... 11 ... ... ... ... ... ...	... ... ... ... ... 8 3 4	... ... ... ... ... 1 2 3	1 1 1	(D) (D) (D) (D) (D) (D) (D) (D)	... ... ... ... ... ... ... ...

D Data not shown to avoid disclosure of information for individual organizations.
NA Not available.

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

Item (For definitions and explanations, see text)	Snake River above American Falls, Idaho (I-H)						
	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users	
Irrigation organizations.....organizations 1959...	295	118	164	9	1	...	3
Service area, 1959:	366	193	156	11	1	NA	5
Area served, as reported							
by organizations.....acres...	774,377	62,061	488,803	175,893	9,520	...	38,100
Area irrigated, as reported							
by organizations.....acres...	724,454	58,300	454,241	170,899	8,520	...	32,494
Water users served, 1959, total.....water users...	14,690	801	7,696	3,401	67	...	2,725
Farm irrigation water users.....water users...	11,133	627	6,478	2,901	87	...	1,060
Residential water users.....water users...	3,542	171	1,206	500	...	...	1,665
Other water users.....water users...	15	3	12	...	...	...	...
TYPE OF SERVICE, 1959							
All water directly from surface and ground							
water sources.....organizations...	204	95	96	9	1	...	3
Total water conveyed.....acre-feet...	4,937,633	213,108	3,231,629	1,221,610	16,718	...	254,568
Water delivered.....acre-feet...	4,248,680	183,000	2,851,825	1,031,780	13,082	...	168,993
To farm and residential users							
only.....organizations...	185	93	80	8	1	...	3
acre-feet...	2,346,694	168,053	1,168,802	827,764	13,082	...	168,993
To farm and residential users and other							
irrigation organizations.....organizations...	18	2	15	1	...	...	...
Water to farm and residential							
users.....acre-feet...	645,941	7,481	458,460	180,000	...	...	...
Water to other irrigation							
organizations.....acre-feet...	1,118,105	7,466	1,086,623	24,016	...	...	...
To other irrigation organizations							
only.....organizations...	1	...	1	...	...	...	...
acre-feet...	137,940	...	137,940	...	...	...	...
Part of water from other							
organizations.....organizations...	21	1	20	...	...	...	...
Total water conveyed.....acre-feet...	661,723	13,388	648,335	...	...	...	...
From surface and ground water							
sources.....acre-feet...	1,8,241	5,438	1,13,679	...	...	...	...
From other irrigation organizations.....acre-feet...	669,964	7,950	662,014	...	...	...	...
Water delivered.....acre-feet...	598,808	12,007	586,801	...	...	...	...
To farm and residential users							
only.....organizations...	16	1	15	...	...	...	...
acre-feet...	295,216	12,007	283,209	...	...	...	...
To farm and residential users and other							
irrigation organizations.....organizations...	5	...	5	...	...	...	...
Water to farm and residential							
users.....acre-feet...	256,506	...	256,506	...	...	...	...
Water to other irrigation							
organizations.....acre-feet...	47,086	...	47,086	...	...	...	...
To other irrigation organizations							
only.....organizations...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
All of water from other organizations.....organizations...	69	22	47	...	...	...	...
Total water conveyed.....acre-feet...	872,711	32,488	840,223	...	...	...	...
Water delivered.....acre-feet...	792,539	29,268	763,271	...	...	...	...
To farm and residential users							
only.....organizations...	56	16	40	...	...	...	...
acre-feet...	423,396	26,222	397,174	...	...	...	...
To farm and residential users and other							
irrigation organizations.....organizations...	11	4	7	...	...	...	...
Water to farm and residential							
users.....acre-feet...	138,164	359	137,805	...	...	...	...
Water to other irrigation							
organizations.....acre-feet...	229,530	1,238	228,292	...	...	...	...
To other irrigation organizations							
only.....organizations...	2	2	...	...	...	...	...
acre-feet...	1,449	1,449	...	...	...	...	...
No water conveyed.....organizations...	1	...	1	...	...	...	...
WATER FROM OTHER SOURCES							
Organizations reporting no water from other							
sources used on the land served by the							
organization.....organizations...	237	110	136	8	1	...	2
acres served.....acres...	646,559	60,428	398,303	170,008	9,520	...	8,100
acres irrigated.....acres...	620,600	56,467	369,705	165,014	8,520	...	2,494
water delivered to farms (acre-feet)...	3,502,672	206,753	2,302,160	973,557	13,082	...	7,120
acre-feet per acre...	5.8	3.6	6.2	5.9	1.5	...	2.9
Organizations reporting water from other							
sources used on land served by the							
organization.....organizations...	34	6	26	1	...	...	1
acres served.....acres...	129,188	1,633	91,670	5,885	...	...	30,000
acres irrigated.....acres...	123,224	1,633	85,706	5,885	...	...	30,000
water delivered to farms (acre-feet)...	581,427	6,889	388,731	29,807	...	...	156,000
acre-feet per acre...	4.7	4.2	4.5	5.1	...	...	5.2
NEW CAPITAL INVESTMENT, 1950-1959							
Expenditures for additional new works and							
equipment for irrigation and drainage,							
January 1, 1950-December 31, 1959.....organizations...	137	36	95	5	...	...	1
By U. S. B. R.....dollars...	...	...	...	...	...	...	...
By water users organizations.....dollars...	1,622,892	34,887	1,205,545	206,460	...	...	176,000

See footnotes at end of table.

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

Item (For definitions and explanations, see text)	Snake River above American Falls, Idaho (I-H)						
	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users	
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
Total entering conveyance systems.....organizations... 							

NA Not available.

¹Water was transferred to the basin and released to natural stream channels in excess of the quantity of surface water withdrawn by irrigation organizations. The net effect was to increase the available surface water supply in the basin or State.

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

Item (For definitions and explanations, see text)	Bonneville Basin and Bear River (III-D and III-E)						
	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users	
Irrigation organizations.....organizations 1959...	182	105	76	1	...	1	...
Service area, 1959: 1949...	192	110	81	1	...	NA	...
Area served, as reported							
by organizations.....acres...	193,275	38,397	(D)	(D)	...	(D)	...
Area irrigated, as reported							
by organizations.....acres...	175,846	33,760	(D)	(D)	...	(D)	...
Water users served, 1959, total.....water users...	3,887	474	(D)	(D)	...	(D)	...
Farm irrigation water users.....water users...	3,278	438	(D)	(D)	...	(D)	...
Residential water users.....water users...	505	16	(D)	...	...	...	...
Other water users.....water users...	4	...	(D)	...	...	...	...
TYPE OF SERVICE, 1959							
All water directly from surface and ground							
water sources.....organizations...	152	93	58	1	...	1	...
Total water conveyed.....acre-feet...	591,214	96,819	(D)	(D)	...	(D)	...
Water delivered.....acre-feet...	459,367	81,807	(D)	(D)	...	(D)	...
To farm and residential users							
only.....organizations...	145	93	51	1	...	1	...
acre-feet...	319,851	81,807	(D)	(D)	...	(D)	...
To farm and residential users and other							
irrigation organizations.....organizations...	6	...	6	...	...	...	...
Water to farm and residential							
users.....acre-feet...	24,249	...	(D)	...	...	...	...
Water to other irrigation							
organizations.....acre-feet...	108,227	...	(D)	...	...	...	...
To other irrigation organizations							
only.....organizations...	1	...	1	...	...	...	...
acre-feet...	7,040	...	(D)	...	...	...	...
Part of water from other							
organizations.....organizations...	3	1	2	...	...	...	...
Total water conveyed.....acre-feet...	10,908	1,678	(D)	...	...	...	...
From surface and ground water							
sources.....acre-feet...	1,245	1,500	(D)	...	...	...	...
From other irrigation organizations.....acre-feet...	11,753	178	(D)	...	...	...	...
Water delivered.....acre-feet...	1,885	1,510	(D)	...	...	...	...
To farm and residential users							
only.....organizations...	3	1	2	...	...	...	...
acre-feet...	1,885	1,510	(D)	...	...	...	...
To farm and residential users and other							
irrigation organizations.....organizations...	...	...	...	...	...	...	...
Water to farm and residential							
users.....acre-feet...	...	...	...	...	...	...	...
Water to other irrigation							
organizations.....acre-feet...	...	...	...	...	...	...	...
To other irrigation organizations							
only.....organizations...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
All of water from other organizations.....organizations...	27	11	16	...	...	...	...
Total water conveyed.....acre-feet...	154,852	12,404	(D)	...	...	...	...
Water delivered.....acre-feet...	131,668	9,523	(D)	...	...	...	...
To farm and residential users							
only.....organizations...	24	11	13	...	...	...	...
acre-feet...	59,657	9,523	(D)	...	...	...	...
To farm and residential users and other							
irrigation organizations.....organizations...	3	...	3	...	...	...	...
Water to farm and residential							
users.....acre-feet...	20,685	...	(D)	...	...	...	...
Water to other irrigation							
organizations.....acre-feet...	51,326	...	(D)	...	...	...	...
To other irrigation organizations							
only.....organizations...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
No water conveyed.....organizations...	...	...	...	...	...	...	...
WATER FROM OTHER SOURCES							
Organizations reporting no water from other							
sources used on the land served by the							
organization.....organizations...	151	90	61	...	...	...	...
acres served...	174,301	34,958	(D)	...	...	...	...
acres irrigated...	158,849	30,321	(D)	...	...	...	...
water delivered to farms (acre-feet)...	409,235	86,488	(D)	...	...	...	...
acre-feet per acre...	2.6	2.9	(D)	...	...	...	...
Organizations reporting water from other							
sources used on land served by the							
organization.....organizations...	30	15	14	1	...	1	...
acres served...	43,320	3,799	(D)	(D)	...	(D)	...
acres irrigated...	40,203	3,799	(D)	(D)	...	(D)	...
water delivered to farms (acre-feet)...	61,312	6,967	(D)	(D)	...	(D)	...
acre-feet per acre...	1.5	1.8	(D)	(D)	...	(D)	...
NEW CAPITAL INVESTMENT, 1950-1959							
Expenditures for additional new works and							
equipment for irrigation and drainage,							
January 1, 1950-December 31, 1959.....organizations...	53	25	28	...	...	1	...
By U. S. B. R.....dollars...	7,600	...	(D)	...	...	...	...
Water users organizations.....dollars...	987,767	81,465	(D)	...	...	...	...

See footnotes at end of table.

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

Item (For definitions and explanations, see text)	Bonneville Basin and Bear River (III-D and III-E)						
	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users	
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
Total entering conveyance systems.....organizations... acre-feet.....	182 590,381	105 98,319	76 (D)	1 (D)	... 7,350	1...	...
From another drainage basin.....organizations... acre-feet.....	3 6,835	... ...	3 (D)	... ...	... ...	... ...	...
From drainage basin.....D. B. No.....	... ...	... ...	... ...	... ...	... ...	... ...	...
From sources within basin.....organizations... acre-feet.....	153 583,546	94 98,319	58 (D)	1 (D)	... 7,350	1...	...
Surface water.....organizations... acre-feet.....	134 563,319	79 89,202	54 (D)	1 (D)	... 7,350	1...	...
Ground water.....organizations... acre-feet.....	21 20,227	16 9,117	5 (D)	... ...	... ...	... ...	...
From other organizations in the basin.....organizations receiving... acre-feet.....	30 166,593	12 12,582	18 (D)	... ...	... ...	... ...	...
Total leaving conveyance systems.....organizations... acre-feet.....	182 590,381	105 110,901	76 (D)	1 (D)	... 7,350	1...	...
Conveyance loss in basin.....organizations... acre-feet.....	176 86,442	102 17,261	73 (D)	1 (D)	... 1,690	1...	...
Conveyed to another drainage basin.....organizations... acre-feet.....	9 77,600	1 800	8 (D)	... ...	... ...	... ...	...
To drainage basin number.....D. B. No.....	... ...	... ...	... ...	... ...	... ...	... ...	...
Delivered for use in the basin.....organizations... acre-feet.....	181 426,339	105 92,840	75 (D)	1 (D)	... 5,660	1...	...
To farm irrigation water users.....organizations... acre-feet.....	181 423,754	105 92,840	75 (D)	1 (D)	... 5,660	1...	...
To domestic water users.....organizations... acre-feet.....	13 2,973	... ...	13 (D)	... ...	... ...	... ...	...
For other use.....organizations... acre-feet.....	2 12	... ...	2 12	......	......	......	...
Delivered to other irrigation organizations.....organizations delivering... acre-feet.....	10 166,593	... ...	10 (D)	... ...	... ...	... ...	...
SIZE OF ORGANIZATION, 1959							
Size of organization (number of farm irrigation water users):							
None.....organizations...	4	2	(D)	(D)	... ...	... ...	...
1 to 3 water users.....organizations...	53	52	(D)	(D)	... ...	... ...	...
4 to 9 water users.....organizations...	49	41	(D)	(D)	... ...	... ...	...
10 to 29 water users.....organizations...	48	10	(D)	(D)	... ...	... ...	...
30 to 99 water users.....organizations...	19	...	(D)	(D)	... ...	... ...	...
100 to 299 water users.....organizations...	8	...	(D)	(D)	... 1	......	...
300 to 999 water users.....organizations...	...	...	...	...	... ...	... ...	...
1,000 or more water users.....organizations...	1	...	(D)	(D)	... ...	... ...	...
Size of organization (acre-feet of water delivered directly to farms):							
None.....organizations...	1	...	(D)	(D)	... ...	... ...	...
1 to 299 acre-feet.....organizations...	31	28	(D)	(D)	... 1	......	...
300 to 999 acre-feet.....organizations...	61	49	(D)	(D)	... ...	... ...	...
1,000 to 2,999 acre-feet.....organizations...	49	21	(D)	(D)	... ...	... ...	...
3,000 to 9,999 acre-feet.....organizations...	32	7	(D)	(D)	... ...	... ...	...
10,000 to 29,999 acre-feet.....organizations...	5	...	(D)	(D)	... ...	... ...	...
30,000 to 99,999 acre-feet.....organizations...	3	...	(D)	(D)	... ...	... ...	...
100,000 or more acre-feet.....organizations...	...	...	...	...	... ...	... ...	...
Size of organization (acre-feet of water conveyed):							
None.....organizations...	...	...	...	...	... ...	... ...	...
1 to 299 acre-feet.....organizations...	25	24	(D)	(D)	... ...	... ...	...
300 to 999 acre-feet.....organizations...	54	43	(D)	(D)	... ...	... ...	...
1,000 to 2,999 acre-feet.....organizations...	58	31	(D)	(D)	... ...	... ...	...
3,000 to 9,999 acre-feet.....organizations...	31	7	(D)	(D)	... ...	... ...	...
10,000 to 29,999 acre-feet.....organizations...	8	...	(D)	(D)	... ...	... ...	...
30,000 to 99,999 acre-feet.....organizations...	6	...	(D)	(D)	... ...	... ...	...
100,000 or more acre-feet.....organizations...	...	...	...	...	... ...	... ...	...

D Data not shown to avoid disclosure of information for individual organizations.

NA Not available.

¹Water was transferred to the basin and released to natural stream channels in excess of the quantity of surface water withdrawn by irrigation organizations. The net effect was to increase the available surface water supply in the basin or State.

State Table 5.—NUMBER OF IRRIGATION ORGANIZATIONS, TYPE OF SERVICE, NEW CAPITAL INVESTMENT, AND WATER CONVEYED, BY SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUS OF 1959

Item (For definitions and explanations, see text)		Idaho, total				Columbia River above Snake River excluding Yakima River, and Snake River below Weiser, Idaho (I-C and I-E)			
		Size of organization, by total water conveyed							
		0-999 acre-feet	1,000- 9,999 acre-feet	10,000- 99,999 acre-feet	100,000 or more acre-feet	0-999 acre-feet	1,000- 9,999 acre-feet	10,000- 99,999 acre-feet	100,000 or more acre-feet
1	Number of organizations.....organizations...	293	438	166	30	41	71	7	...
TYPE OF SERVICE									
2	All water directly from surface and ground sources.....organizations...	246	343	114	23	39	67	4	...
3	Total water conveyed.....acre-feet...	104,098	1,231,995	3,281,959	8,663,006	19,187	278,843	133,462	...
4	Water delivered.....acre-feet...	90,619	1,044,096	2,599,583	6,859,467	16,732	232,074	64,596	...
5	To farm and residential users only.....organizations...	244	332	87	10	39	66	3	...
6	To farm and residential users and other irrigation organizations.....organizations...	88,959	1,007,029	1,788,095	1,756,658	16,732	228,961	48,187	...
7	To farm and residential users.....organizations...	1	9	25	12	...	1	...	...
8	Water to farm and residential users.....acre-feet...	570	15,146	315,156	3,480,171	...	1,656	...	...
9	Water to other irrigation organizations.....acre-feet...	266	13,755	470,137	1,484,698	...	1,437	...	...
10	To other irrigation organizations only.....organizations...	1	2	2	1	...	...	1	...
11	To farm and residential users only.....organizations...	824	8,166	26,195	137,940	...	...	16,409	...
12	Part of water from other organizations.....organizations...	8	28	23	6	...	2	2	...
13	Total water conveyed.....acre-feet...	2,024	137,411	717,622	1,439,888	...	5,548	36,075	...
14	From surface and ground water sources.....acre-feet...	391	7,739	205,410	657,575	...	433	8,923	...
15	From other irrigation organizations.....acre-feet...	1,633	129,672	512,212	782,313	...	5,115	27,152	...
16	Water delivered.....acre-feet...	1,831	115,055	727,225	1,162,645	...	5,188	35,215	...
17	To farm and residential users only.....organizations...	8	28	17	4	...	2	1	...
18	To farm and residential users and other irrigation organizations.....organizations...	1,831	115,055	589,238	929,445	...	5,188	12,900	...
19	To farm and residential users.....organizations...	...	...	6	2	...	...	1	...
20	Water to farm and residential users.....acre-feet...	...	...	74,849	208,804	...	...	...	...
21	Water to other irrigation organizations.....acre-feet...	...	...	63,168	24,396	...	...	22,315	...
22	To other irrigation organizations only.....organizations...	...	...	...	...	...	...	...	...
23	To other irrigation organizations only.....acre-feet...	...	...	...	...	...	...	...	...
24	All of water from other organizations.....organizations...	32	67	29	1	2	2	1	...
25	Total water conveyed.....acre-feet...	15,083	259,839	655,664	217,867	911	5,281	15,498	...
26	Water delivered.....acre-feet...	13,640	224,905	565,921	211,807	869	4,371	...	...
27	To farm and residential users only.....organizations...	27	66	20	...	2	2	1	...
28	To farm and residential users and other irrigation organizations.....organizations...	11,619	223,880	339,620	...	869	4,371	...	...
29	To farm and residential users.....organizations...	4	...	9	1	...	...	...	...
30	Water to farm and residential users.....acre-feet...	359	...	111,278	47,212	...	...	...	...
31	Water to other irrigation organizations.....acre-feet...	1,238	...	115,023	164,595	...	...	...	...
32	To other irrigation organizations only.....organizations...	1	1	...	...	...	...	...	...
33	To other irrigation organizations only.....acre-feet...	424	1,025	...	...	...	...	...	...
34	No water conveyed.....organizations...	7	...	...	...	...	...	...	...
WATER FROM OTHER SOURCES									
35	Organizations reporting no water from other sources used on land served by the organization.....organizations...	253	381	133	26	36	56	5	...
36	Organizations reporting water from other sources used on land served by the organization.....organizations...	53,774	363,610	578,841	1,106,242	7,745	49,484	17,372	...
37	To farm and residential users only.....organizations...	41,893	318,767	516,250	1,061,856	5,171	44,003	15,416	...
38	Organizations reporting water from other sources used on land served by the organization.....organizations...	31	55	30	3	5	15	1	...
39	To farm and residential users only.....organizations...	10,220	72,346	148,712	192,467	1,935	10,316	3,000	...
40	To farm and residential users and other irrigation organizations.....organizations...	8,316	61,769	141,098	192,467	820	10,266	1,850	...
NEW CAPITAL INVESTMENT, 1950-1959									
41	Expenditures for additional new works and equipment for irrigation and drainage, January 1, 1950-December 31, 1959.....organizations...	71	201	88	22	16	43	4	...
42	Expenditures for additional new works and equipment for irrigation and drainage, January 1, 1950-December 31, 1959.....dollars...	7,433,764	2,314,938	2,396,072	12,383,085	317,959	1,307,608	25,000	...
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959									
43	Total entering conveyance systems in basin.....organizations...	286	438	166	30	41	71	7	...
44	From natural drainage basin.....organizations...	104,501	1,239,734	3,487,369	9,383,022	19,187	283,100	152,337	...
45	From drainage basin number.....D. B. No.....	1	8	1	1	...	1	1	...
46	From natural sources within basin.....organizations...	35	29,069	10,000	101,201	...	3,824	22,315	...
47	From drainage basin number.....D. B. No.....	25	363	137	30	39	68	6	...
48	From natural sources within basin.....organizations...	104,466	1,210,665	3,477,369	9,281,821	19,187	279,276	130,022	...
49	Surface water.....organizations...	229	345	131	29	38	69	5	...
50	From natural sources within basin.....organizations...	93,792	1,114,737	3,291,725	9,026,806	18,463	279,276	130,022	...
51	Ground water.....organizations...	26	27	10	6	1	...	...	...
52	From natural sources within basin.....organizations...	10,674	95,928	185,644	255,015	724	...	...	...
53	From other organizations in the basin.....organizations receiving...	40	95	49	7	...	2	2	...
54	From other organizations in the basin.....organizations receiving...	16,704	389,511	1,167,896	937,739	911	6,572	32,698	...
55	Total leaving conveyance systems.....organizations...	286	438	166	30	41	71	7	...
56	Conveyance loss in basin.....organizations...	118,453	1,066,299	3,980,742	8,509,132	20,098	288,215	146,311	...
57	Conveyance loss in basin.....organizations...	252	408	153	28	34	65	5	...
58	Conveyed to another drainage basin.....organizations...	14,528	235,274	629,430	2,068,952	2,497	47,959	32,885	...
59	To drainage basin number.....D. B. No.....	1	5	5	1	...	...	...	...
60	To drainage basin number.....D. B. No.....	320	5,825	127,555	11,957	...	...	52,339	...
61	Delivered for use in the basin.....organizations...	284	435	163	29	41	71	4	...
62	To farm irrigation water users.....organizations...	103,605	1,365,200	3,223,797	6,428,223	17,601	240,256	61,087	...
63	To farm irrigation water users.....organizations...	284	435	163	29	41	71	4	...
64	To residential water users.....organizations...	100,854	1,323,234	3,181,618	6,278,955	16,911	230,860	61,087	...
65	To residential water users.....organizations...	18	52	25	12	5	...	...	...
66	For other use.....organizations...	2,484	37,876	36,618	143,335	...	9,316	...	...
67	For other use.....organizations...	2	18	3	6	...	...	...	...
68	Delivered to other irrigation organizations.....organizations delivering...	267	4,090	5,521	5,933	...	80	...	...
69	Delivered to other irrigation organizations.....organizations delivering...	7	11	42	16	...	1	2	...
70	Delivered to other irrigation organizations.....organizations delivering...	2,752	22,946	674,523	1,811,629	...	1,497	38,724	...
AVERAGE DELIVERY OF IRRIGATION WATER PER ACRE, 1959									
Per acre irrigated, as reported by irrigation organization:									
71	All organizations.....organizations...	2.0	3.5	4.8	5.2	4.4	5.4	2.9	...
72	Organizations reporting no water from other sources used on land served by the organization.....organizations...	253	381	133	26	36	56	5	...
73	To farm and residential users only.....organizations...	1.6	3.7	4.9	5.1	2.8	4.4	2.5	...

State Table 5.—NUMBER OF IRRIGATION ORGANIZATIONS, TYPE OF SERVICE, NEW CAPITAL INVESTMENT, AND WATER CONVEYED, BY SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUS OF 1959—Continued

Item (For definitions and explanations, see text)	Snake River, Weiser, Idaho to King Hill, Idaho (I-F)				Snake River, King Hill, Idaho to American Falls, Idaho (I-G)			
	Size of organization, by total water conveyed							
	0-999 acre-feet	1,000- 9,999 acre-feet	10,000- 99,999 acre-feet	100,000 or more acre-feet	0-999 acre-feet	1,000- 9,999 acre-feet	10,000- 99,999 acre-feet	100,000 or more acre-feet
1 Number of organizations.....organizations...	66	111	47	10	38	42	17	7
TYPE OF SERVICE								
2 All water directly from surface and ground sources.....organizations...	50	74	40	7	34	39	14	6
3 Total water conveyed.....acre-feet...	18,950	261,897	873,731	1,914,123	14,366	133,747	366,767	3,814,607
4 Water delivered.....acre-feet...	17,156	223,208	648,300	1,474,427	12,464	114,739	278,801	2,803,221
5 To farm and residential users only.....organizations...	49	71	31	...	34	38	11	3
6 To farm and residential users and other irrigation organizations.....organizations...	16,332	214,040	356,462	...	12,464	112,598	249,281	719,139
7 Water to farm and residential users.....acre-feet...	...	2	9	7	...	1	2	3
8 Water to farm and residential users.....acre-feet...	...	3,992	136,193	1,292,632	...	1,259	15,651	1,689,470
9 Water to other irrigation organizations.....acre-feet...	...	4,050	155,645	181,795	...	882	4,083	394,612
10 To other irrigation organizations only.....organizations...	1	1	...	...	...	...	1	...
11 To other irrigation organizations only.....acre-feet...	824	1,126	...	...	...	...	9,786	...
12 Part of water from other organizations.....organizations...	7	19	7	3	...	...	2	1
13 Total water conveyed.....acre-feet...	1,889	82,838	248,329	645,865	...	...	98,690	535,960
14 From surface and ground water sources.....acre-feet...	368	3,669	169,521	457,798	...	...	40,552	211,300
15 From other irrigation organizations.....acre-feet...	1,521	79,169	78,808	188,067	...	...	58,138	324,660
16 Water delivered.....acre-feet...	1,756	68,965	290,853	580,733	...	...	74,671	348,712
17 To farm and residential users only.....organizations...	7	19	4	3	...	...	2	1
18 To farm and residential users and other irrigation organizations.....organizations...	1,756	68,965	245,543	580,733	...	...	74,671	348,712
19 Water to farm and residential users.....acre-feet...	...	...	3	...	...	...	...	...
20 Water to farm and residential users.....acre-feet...	...	...	27,147	...	...	...	...	...
21 Water to other irrigation organizations.....acre-feet...	...	...	18,163	...	...	...	...	...
22 To other irrigation organizations only.....organizations...	...	...	...	...	...	...	...	...
23 To other irrigation organizations only.....acre-feet...	...	...	...	...	...	...	...	...
24 All of water from other organizations.....organizations...	4	18	...	...	...	3	1	...
25 Total water conveyed.....acre-feet...	2,309	74,170	...	...	1,093	3,872	21,600	...
26 Water delivered.....acre-feet...	2,228	61,556	...	...	1,000	3,682	18,360	...
27 To farm and residential users only.....organizations...	4	18	...	...	3	3	1	...
28 To farm and residential users and other irrigation organizations.....organizations...	2,228	61,556	...	...	1,000	3,682	18,360	...
29 Water to farm and residential users.....acre-feet...	...	...	...	...	...	...	...	...
30 Water to farm and residential users.....acre-feet...	...	...	...	...	...	...	...	...
31 Water to other irrigation organizations.....acre-feet...	...	...	...	...	...	...	...	...
32 To other irrigation organizations only.....organizations...	...	...	...	...	...	...	...	...
33 To other irrigation organizations only.....acre-feet...	...	...	...	...	...	...	...	...
34 No water conveyed.....organizations...	5	...	...	...	1	...	...	...
WATER FROM OTHER SOURCES								
35 Organizations reporting no water from other sources used on land served by the organization.....organizations...	58	96	40	8	33	40	11	7
36 acres served.....	10,879	74,379	142,596	542,447	7,461	39,747	111,953	637,344
37 acres irrigated.....	8,399	67,207	140,985	533,008	4,823	27,595	69,759	615,151
38 Organizations reporting water from other sources used on land served by the organization.....organizations...	2	14	7	2	4	2	2	...
39 acres served.....	1,334	11,309	19,452	162,467	1,659	1,720	40,345	...
40 acres irrigated.....	925	9,769	18,112	162,467	1,579	1,090	35,645	...
NEW CAPITAL INVESTMENT, 1950-1959								
41 Expenditures for additional new works and equipment for irrigation and drainage, January 1, 1950-December 31, 1959.....organizations...	18	47	19	5	9	19	9	4
42 dollars.....	7,040,111	260,414	468,002	1,147,190	6,265	73,294	640,043	10,623,714
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959								
43 Total entering conveyance systems in basin.....organizations...	61	111	46	10	37	42	17	7
44 From another drainage basin.....acre-feet...	19,318	265,656	1,043,252	2,434,362	14,366	133,747	407,319	4,025,907
45 From another drainage basin.....organizations...	...	...	29,800	155,160	...	...	...	...
46 From Drainage Basin number.....D. B. No.....	...	...	...	...	...	...	...	...
47 From natural sources within basin.....organizations...	37	92	46	8	34	39	16	7
48 Surface water.....organizations...	19,318	265,656	1,013,452	2,279,202	14,366	133,747	407,319	4,025,907
49 Ground water.....organizations...	56	91	46	8	33	40	16	7
50 From other organizations in the basin.....organizations receiving...	19,033	255,720	1,011,268	2,248,419	14,266	90,719	404,461	3,804,275
51 From other organizations in the basin.....organizations receiving...	285	9,956	2,184	30,783	100	43,028	2,858	221,632
52 From other organizations in the basin.....organizations receiving...	11	37	5	2	3	3	3	1
53 From other organizations in the basin.....organizations receiving...	3,830	153,339	78,808	125,626	1,093	3,872	79,738	324,660
54 Total leaving conveyance systems.....organizations...	61	111	46	10	37	42	17	7
55 Conveyance loss in basin.....organizations...	22,324	413,819	948,252	2,378,193	15,459	136,737	473,188	3,955,955
56 Conveyed to another drainage basin.....organizations...	2,008	59,339	145,608	489,522	1,999	18,458	95,425	1,143,355
57 Conveyed to another drainage basin.....acre-feet...	...	1	2	1	...	...	1	2
58 To drainage basin number.....D. B. No.....	...	3,824	34,641	11,957	...	...	19,800	53,959
59 Delivered for use in the basin.....organizations...	60	109	47	10	37	42	17	6
60 To farm irrigation water users.....acre-feet...	20,316	350,656	768,003	1,876,714	13,464	118,279	357,963	2,758,641
61 To farm irrigation water users.....organizations...	60	109	47	10	37	42	17	6
62 To residential water users.....organizations...	20,371	330,465	738,909	1,771,055	13,121	114,743	357,698	2,754,196
63 For other use.....organizations...	2	21	14	6	5	2	2	4
64 For other use.....acre-feet...	145	18,088	26,436	102,310	343	2,796	265	33,125
65 Delivered to other irrigation organizations.....organizations delivering...	...	8	3	3	...	2	...	1
66 Delivered to other irrigation organizations.....organizations delivering...	...	2,103	2,658	3,349	...	740	...	1,320
67 Delivered to other irrigation organizations.....organizations delivering...	1	3	12	5	...	3	3	3
68 acre-feet.....	824	5,176	173,808	181,795	...	882	13,869	394,612
AVERAGE DELIVERY OF IRRIGATION WATER PER ACRE, 1959								
69 Per acre irrigated, as reported by irrigation organization:								
70 All organizations.....acre-feet...	2.2	4.3	4.2	5.5	2.0	4.0	3.5	4.5
71 Organizations reporting no water from other sources used on land served by the organization.....organizations...	58	96	40	8	33	40	11	7
72 acres irrigated.....	2.3	4.4	5.1	5.0	2.3	3.6	3.6	4.5

State Table 5.—NUMBER OF IRRIGATION ORGANIZATIONS, TYPE OF SERVICE, NEW CAPITAL INVESTMENT, AND WATER CONVEYED, BY SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUS OF 1959—Continued

Item (For definitions and explanations, see text)		Snake River above American Falls, Idaho (I-H)				Bonneville Basin and Bear River (III-D and III-E)			
		Size of organization, by total water conveyed							
		0-999 acre-feet	1,000- 9,999 acre-feet	10,000- 99,999 acre-feet	100,000 or more acre-feet	0-999 acre-feet	1,000- 9,999 acre-feet	10,000- 99,999 acre-feet	100,000 or more acre-feet
1	Number of organizations.....organizations...	69	128	83	15	79	89	14	...
TYPE OF SERVICE									
2	All water directly from surface and ground sources.....organizations...	53	90	49	12	70	73	9	...
3	Total water conveyed.....acre-feet.....	20,734	335,586	1,593,078	2,988,235	30,861	225,632	334,721	...
4	Water delivered.....acre-feet.....	17,328	288,101	1,361,232	2,581,819	26,739	185,974	246,654	...
5	To farm and residential users only.....organizations.....	52	87	39	7	70	70	7	...
6	acre-feet.....	16,692	276,912	1,015,571	1,037,519	26,739	174,518	118,594	...
7	To farm and residential users and other irrigation organizations.....organizations.....	1	3	10	4	...	2	4	...
8	Water to farm and residential users.....acre-feet.....	570	4,839	142,463	498,069	...	3,400	20,849	...
9	Water to other irrigation organizations.....acre-feet.....	266	6,350	203,198	908,291	...	1,016	107,211	...
10	To other irrigation organizations only.....organizations.....	...	...	...	1	...	...	...	...
11	acre-feet.....	...	...	...	137,940	...	7,040	...	...
12	Part of water from other organizations.....organizations.....	...	7	12	2	1	2	...	...
13	Total water conveyed.....acre-feet.....	...	46,817	356,843	258,063	135	10,773	...	...
14	From surface and ground water sources.....acre-feet.....	...	4,505	1,123	1,115,23	23	1,868	...	...
15	From other irrigation organizations.....acre-feet.....	...	42,312	358,066	269,286	112	11,641	...	...
16	Water delivered.....acre-feet.....	...	39,092	326,516	233,200	75	1,810	...	...
17	To farm and residential users only.....organizations.....	...	...	9	...	...	2	...	...
18	acre-feet.....	...	39,092	256,124	...	75	1,810	...	...
19	To farm and residential users and other irrigation organizations.....organizations.....	...	...	3	2	...	...	...	...
20	Water to farm and residential users.....acre-feet.....	...	...	47,702	208,804	...	...	...	...
21	Water to other irrigation organizations.....acre-feet.....	...	...	22,690	24,396	...	...	...	...
22	To other irrigation organizations only.....organizations.....	...	...	...	...	...	...	...	...
23	acre-feet.....	...	...	...	...	...	...	...	...
24	All of water from other organizations.....organizations.....	15	31	22	1	8	14	5	...
25	Total water conveyed.....acre-feet.....	5,302	134,463	515,078	217,867	5,468	45,877	103,507	...
26	Water delivered.....acre-feet.....	4,760	120,406	455,566	211,807	4,783	34,890	91,995	...
27	To farm and residential users only.....organizations.....	10	30	16	...	8	14	2	...
28	acre-feet.....	2,739	119,381	301,276	...	4,783	34,890	19,984	...
29	To farm and residential users and other irrigation organizations.....organizations.....	4	...	6	1	...	...	3	...
30	Water to farm and residential users.....acre-feet.....	359	...	90,593	47,212	...	...	20,685	...
31	Water to other irrigation organizations.....acre-feet.....	1,238	...	63,697	164,595	...	...	51,326	...
32	To other irrigation organizations only.....organizations.....	1	1	...	...	...	...	...	...
33	acre-feet.....	424	1,025	...	...	...	...	...	...
34	No water conveyed.....organizations.....	1	...	...	...	...	...	...	...
WATER FROM OTHER SOURCES									
35	Organizations reporting no water from other sources used on land served by the organization.....organizations.....	64	113	67	13	62	76	13	...
36	acres served.....	12,690	107,683	250,835	275,351	14,999	93,217	66,085	...
37	acres irrigated.....	11,822	96,876	236,905	256,997	11,678	83,986	63,185	...
38	Organizations reporting water from other sources used on land served by the organization.....organizations.....	3	14	16	1	17	12	1	...
39	acres served.....	453	25,070	73,665	30,000	4,839	26,231	12,250	...
40	acres irrigated.....	453	19,530	73,241	30,000	4,539	23,414	12,250	...
NEW CAPITAL INVESTMENT, 1950-1959									
41	Expenditures for additional new works and equipment for irrigation and drainage, January 1, 1950-December 31, 1959.....organizations.....	13	64	49	11	17	28	8	...
42	dollars.....	13,670	159,545	837,496	612,181	57,190	512,646	425,531	...
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959									
43	Total entering conveyance systems in basin.....organizations.....	68	128	83	15	79	89	14	...
44	acre-feet.....	20,734	348,656	1,591,855	2,976,712	30,896	224,764	334,721	...
45	From another drainage basin.....organizations.....	...	8	...	...	...	...	...	...
46	acre-feet.....	...	34,634	...	...	35	6,800	...	...
47	From Drainage Basin number.....D. B. No.....	...	...	...	...	...	...	...	...
48	From natural sources within basin.....organizations.....	53	90	61	14	70	74	9	...
49	acre-feet.....	20,734	314,022	1,591,855	2,976,712	30,861	217,964	334,721	...
50	Surface water.....organizations.....	48	85	55	14	54	71	9	...
51	acre-feet.....	18,868	283,586	1,411,253	2,974,112	23,162	205,436	334,721	...
52	Ground water.....organizations.....	7	9	8	1	16	8	...	...
53	acre-feet.....	1,866	30,436	180,602	2,600	7,699	12,528	...	...
54	From other organizations in the basin.....organizations receiving.....	15	37	34	3	9	16	5	...
55	acre-feet.....	5,302	168,210	873,145	487,455	5,568	57,518	103,507	...
56	Total leaving conveyance systems.....organizations.....	68	128	83	15	79	89	14	...
57	acre-feet.....	24,108	509,491	2,175,415	2,228,943	36,464	274,226	279,691	...
58	Conveyance loss in basin.....organizations.....	62	125	79	15	77	86	13	...
59	acre-feet.....	3,481	64,312	318,823	436,075	4,547	45,206	36,689	...
60	Conveyed to another drainage basin.....organizations.....	...	1	...	...	1	6	2	...
61	acre-feet.....	...	3,800	...	...	320	14,390	62,890	...
62	To drainage basin number.....D. B. No.....	...	...	...	...	...	...	...	...
63	Delivered for use in the basin.....organizations.....	67	126	83	15	79	88	14	...
64	acre-feet.....	20,627	441,379	1,856,592	1,792,868	31,597	214,630	180,112	...
65	To farm irrigation water users.....organizations.....	67	126	83	15	79	88	14	...
66	acre-feet.....	19,054	435,121	1,843,812	1,783,704	31,597	212,045	180,112	...
67	To residential water users.....organizations.....	6	8	9	2	...	13	...	...
68	acre-feet.....	1,306	5,103	9,917	7,900	...	2,573	...	...
69	For other use.....organizations.....	2	5	1	1	...	...	...	...
70	acre-feet.....	267	1,155	2,863	1,264	...	12	...	...
71	Delivered to other irrigation organizations.....organizations delivering.....	6	4	7	...	...	3	7	...
72	acre-feet.....	1,928	7,375	289,585	1,235,222	...	8,056	158,537	...
AVERAGE DELIVERY OF IRRIGATION WATER PER ACRE, 1959									
Per acre irrigated, as reported by irrigation organization:									
73	All organizations.....acre-feet.....	1.6	3.8	5.9	6.2	2.0	2.0	3.1	...
74	Organizations reporting no water from other sources used on land served by the organization.....organizations.....	64	113	67	13	62	76	13	...
75	acre-feet.....	1.6	4.0	6.2	6.3	2.1	2.2	3.2	...

¹Water was transferred to the basin and released to natural stream channels in excess of the quantity of surface water withdrawn by irrigation organizations. The net effect was to increase the available surface water supply in the basin or State.

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State Table 1.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY DRAINAGE BASINS:
CENSUSES OF 1959 AND 1950

Item (For definitions and explanations, see text)		Kansas and Oklahoma, total	Mississippi River excluding Arkansas and Missouri Rivers including Red River direct below Lake Texoma (VI-A and VI-Aa)	Arkansas River (VI-B)						Missouri River below Three Forks, Montana, excluding Platte and Yellowstone Rivers (VI-C)		
				Total	Direct	Canadian River	Cimarron River	Pawnee River	Whitewater Creek	Total	Direct	Kansas River
1	Total acres irrigated in Census year.....1959.....	959,733	127,000	652,000	226,000	51,000	262,000	34,000	79,000	181,000	1,000	180,000
2	1949.....	185,201	36,996	139,834	78,184	4,627	23,401	9,039	24,583	8,371	...	8,371
3	Irrigation organizations.....organizations 1959.....	16	2	9	9	...	...	...	...	5	...	5
4	1949.....	13	1	11	10	...	1	...	...	1	...	1
5	Service area, 1959: Farm area reported served by organizations.....acres 1959.....	155,047	(D)	64,186	64,186	...	...	...	...	(D)	...	(D)
6	Farm area reported irrigated by organizations.....acres 1959.....	106,468	(D)	46,304	46,304	...	...	...	...	(D)	...	(D)
7	Water users served, total.....water users 1959.....	1,105	(D)	320	320	...	...	...	...	(D)	...	(D)
8	Farm irrigation water users.....water users 1959.....	1,104	...	320	320	...	...	...	...	(D)	...	(D)
9	Residential water users.....water users 1959.....	...	...	...	...	...	...	...	...	...	...	...
10	Other water users.....water users 1959.....	1	1	...	...	...	...	...	...	...	...	...
LAND IRRIGATED BY SOURCE OF WATER, 1959												
11	Ground water sources.....acres.....	823,171	83,000	603,000	185,000	50,000	261,000	30,000	77,000	138,000	1,000	136,000
12	Surface water sources.....acres.....	136,562	44,000	49,000	41,000	1,000	1,000	4,000	2,000	43,000	...	44,000
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959												
13	Total entering conveyance systems in basin.....organizations.....	14	2	9	9	...	...	...	...	3	...	3
14	acre-feet.....	237,995	(D)	118,694	118,694	...	...	...	...	(D)	...	(D)
15	From another drainage basin.....organizations.....	1	...	...	...	...	...	...	...	1	...	1
16	acre-feet.....	31,047	...	...	...	...	...	...	...	(D)	...	(D)
17	From drainage basin number.....D. B. No.....	...	...	...	...	...	...	...	...	...	...	(D)
18	From natural sources within basin.....organizations.....	14	2	9	9	...	...	...	...	3	...	3
19	acre-feet.....	206,948	(D)	118,694	118,694	...	...	...	...	(D)	...	(D)
20	Surface water.....organizations.....	14	2	9	9	...	...	...	...	3	...	3
21	acre-feet.....	206,948	(D)	118,694	118,694	...	...	...	...	(D)	...	(D)
22	Ground water.....organizations.....	...	...	...	...	...	...	...	...	...	...	...
23	acre-feet.....	...	...	...	...	...	...	...	...	...	...	...
24	From other organizations in the basin.....organizations receiving.....	1	1	...	...	...	...	...	...	...	...	...
25	acre-feet.....	55,294	(D)	...	...	...	...	...	...	...	...	...
26	Total leaving conveyance systems.....organizations.....	14	2	9	9	...	...	...	...	3	...	3
27	acre-feet.....	237,995	(D)	118,694	118,694	...	...	...	...	(D)	...	(D)
28	Conveyance loss in basin.....organizations.....	12	1	8	8	...	...	...	...	3	...	3
29	acre-feet.....	71,773	(D)	27,095	27,095	...	...	...	...	(D)	...	(D)
30	Conveyed to another drainage basin.....organizations.....	...	...	...	...	...	...	...	...	...	...	...
31	acre-feet.....	...	...	...	...	...	...	...	...	...	...	...
32	To drainage basin number.....D. B. No.....	...	...	...	...	...	...	...	...	...	...	...
33	Delivered for use in the basin.....organizations.....	13	1	9	9	...	...	...	...	3	...	3
34	acre-feet.....	166,222	(D)	91,599	91,599	...	...	...	...	(D)	...	(D)
35	To farm irrigation water users.....organizations.....	13	1	9	9	...	...	...	...	3	...	3
36	acre-feet.....	162,301	(D)	91,599	91,599	...	...	...	...	(D)	...	(D)
37	To residential water users.....organizations.....	...	...	...	...	...	...	...	...	...	...	...
38	acre-feet.....	...	...	...	...	...	...	...	...	...	...	...
39	For other use.....organizations.....	1	1	...	...	...	...	...	...	...	...	...
40	acre-feet.....	3,921	(D)	...	...	...	...	...	...	...	...	...
41	Delivered to other irrigation organizations.....organizations delivering.....	1	1	...	...	...	...	...	...	...	...	...
42	acre-feet.....	55,294	(D)	...	...	...	...	...	...	...	...	...
43	Average delivery of irrigation water per acre irrigated as reported by organizations.....acre-feet.....	1.9	(D)	2.0	2.0	...	...	...	...	(D)	...	(D)
NEW CAPITAL INVESTMENT, 1950-1959												
44	Expenditures for additional new works and equipment for irrigation and drainage, Jan. 1, 1950-Dec. 31, 1959.....organizations.....	11	2	4	4	...	...	...	...	5	...	5
45	dollars.....	42,311,394	(D)	66,450	66,450	...	...	...	...	(D)	...	(D)

D Data not shown to avoid disclosure of information for individual organizations.

State Table 2.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950

Item (For definitions and explanations, see text)	Kansas and Oklahoma, total	Item (For definitions and explanations, see text)	Kansas and Oklahoma, total
Irrigation organizations, total number.....	16	TYPE OF SERVICE, 1959	
Area irrigated as reported by organizations.....	13	All water directly from surface and ground water sources.....	12
Farm water users served directly.....	106,468	Total water conveyed.....	193,854
Total water conveyed.....	293,289	Water delivered.....	156,377
TYPE OF ORGANIZATION		To farm and residential users only.....	11
Mutual:		.....	101,083
Unincorporated.....	2	To farm and residential users and other irrigation organizations.....	...
Farm area irrigated directly.....	4	Water to farm and residential users.....	...
Farm water users served directly.....	(D)	Water to other irrigation organizations.....	...
Total water conveyed.....	(D)	To other irrigation organizations only.....	1
Incorporated.....	8	.....	55,294
Farm area irrigated directly.....	45,774	Part of water from other organizations.....	2
Farm water users served directly.....	307	Total water conveyed.....	99,435
Total water conveyed.....	117,634	From surface and ground water sources.....	13,094
District.....	2	From other irrigation organizations.....	86,341
Farm area irrigated directly.....	...	Water delivered.....	61,218
Farm water users served directly.....	(D)	To farm and residential users only.....	2
Total water conveyed.....	(D)	.....	61,218
U. S. Bureau of Reclamation; projects and storage systems operated by bureau.....	4	To farm and residential users and other irrigation organizations.....	...
Farm area irrigated directly.....	6,470	Water to farm and residential users.....	...
Farm water users served directly.....	120	Water to other irrigation organizations.....	...
Total water conveyed.....	75,140	To other irrigation organizations only.....	...
U. S. Bureau of Reclamation; operated by water users.....	2	All of water from other organizations.....	...
Farm area irrigated directly.....	(D)	Total water conveyed.....	...
Farm water users served directly.....	(D)	Water delivered.....	...
Total water conveyed.....	(D)	To farm and residential users only.....	...
U. S. Bureau of Indian Affairs.....	...	.....	...
Farm area irrigated directly.....	...	To farm and residential users and other irrigation organizations.....	...
Farm water users served directly.....	...	Water to farm and residential users.....	...
Total water conveyed.....	...	Water to other irrigation organizations.....	...
Commercial.....	...	To other irrigation organizations only.....	...
Farm area irrigated directly.....	...	.....	...
Farm water users served directly.....	...	No water conveyed.....	2
Total water conveyed.....	...	WATER FROM OTHER SOURCES	
State.....	...	Organizations reporting no water from other sources used on land served by the organization.....	10
Farm area irrigated directly.....	...	.....	133,631
Farm water users served directly.....	...	Water delivered to farms.....	90,578
Total water conveyed.....	...	.....	122,981
City.....	...	.....	1.4
Farm area irrigated directly.....	...	Organizations reporting water from other sources used on land served by the organization.....	3
Farm water users served directly.....	...	.....	21,416
Total water conveyed.....	...	Water delivered to farms.....	15,890
		.....	39,320
		.....	2.5

D Data not shown to avoid disclosure of information for individual organizations.

State Table 3.—LAND IRRIGATED BY SOURCE OF WATER, BY DRAINAGE BASINS: CENSUS OF 1959

	Item (For definitions and explanations, see text)	Kansas and Oklahoma, total	Missouri River below Three Forks, Montana, excluding Platte and Yellowstone Rivers	Mississippi River, excluding Missouri River and Red River direct below Lake Texoma	Red River direct below Lake Texoma
			(VI-C)	(VI-A and VI-B)	(VI-As)
1	Total acres irrigated.....farms reporting...	7,073	1,836	5,178	59
2	acres...	959,733	181,109	775,490	3,134
3	Acres irrigated by sprinklers.....farms reporting...	2,611	690	1,896	25
4	acres...	142,558	34,109	106,998	1,451
5	Sprinklers only.....farms reporting...	2,172	455	1,693	24
6	acres...	120,214	23,849	94,969	1,396
	LAND IRRIGATED, BY SOURCE OF WATER TO INDIVIDUAL FARMS, 1959				
7	Ground water sources on farm.....farms reporting...	5,426	1,113	4,301	12
8	acres...	823,171	138,093	684,438	640
9	Ground water sources on farm only.....farms reporting...	5,087	1,048	4,028	11
10	acres...	783,326	133,891	648,859	576
11	Surface sources on farm.....farms reporting...	1,213	500	668	45
12	acres...	56,331	21,039	32,889	2,403
13	Surface sources on farm only.....farms reporting...	1,022	435	543	44
14	acres...	47,631	18,784	26,460	2,387
15	Irrigation organization sources.....farms reporting...	803	299	501	3
16	acres...	80,231	21,977	58,163	91
17	Irrigation organization sources only.....farms reporting...	596	276	317	3
18	acres...	52,798	20,402	32,305	91
19	Both farm ground water sources and surface sources.....farms reporting...	161	54	106	1
20	acres...	18,564	5,376	13,108	80
21	Both irrigation organization and farm ground water or farm surface sources.....farms reporting...	207	23	184	...
22	acres...	57,414	2,656	54,758	...

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950

Item (For definitions and explanations, see text)	Kansas and Oklahoma, total						
	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users	
Irrigation organizations.....organizations 1959...	16	2	8	2	4	2	...
Service area, 1959:	13	4	8	...	1	1	...
Area served, as reported							
by organizations.....acres...	155,047	(D)	63,656	(D)	11,900	(D)	...
Area irrigated, as reported							
by organizations.....acres...	106,468	(D)	45,774	(D)	6,470	(D)	...
Water users served, 1959, total.....water users...	1,105	(D)	307	(D)	120	(D)	...
Farm irrigation water users.....water users...	1,104	(D)	307	(D)	120	(D)	...
Residential water users.....water users...	...	...	...	...	...	...	...
Other water users.....water users...	1	...	...	...	...	(D)	...
TYPE OF SERVICE, 1959							
All water directly from surface and ground							
water sources.....organizations...	12	2	8	...	2	...	...
Total water conveyed.....acre-feet...	193,834	(D)	117,634	...	75,140	...	...
Water delivered.....acre-feet...	156,377	(D)	90,799	...	64,759	...	...
To farm and residential users							
only.....organizations...	11	2	8	...	1	...	...
acre-feet...	101,083	(D)	90,799	...	9,465	...	...
To farm and residential users and other							
irrigation organizations.....organizations...	...	...	...	...	...	...	...
Water to farm and residential							
users.....acre-feet...	...	...	...	...	...	...	...
Water to other irrigation							
organizations.....acre-feet...	...	...	...	...	...	...	...
To other irrigation organizations							
only.....organizations...	1	...	...	...	1	...	...
acre-feet...	55,294	...	...	...	55,294	...	...
Part of water from other							
organizations.....organizations...	2	...	...	2	...	2	...
Total water conveyed.....acre-feet...	99,435	...	...	(D)	...	(D)	...
From surface and ground water							
sources.....acre-feet...	13,094	...	...	(D)	...	(D)	...
From other irrigation organizations.....acre-feet...	86,341	...	...	(D)	...	...	...
Water delivered.....acre-feet...	61,218	...	...	(D)	...	(D)	...
To farm and residential users							
only.....organizations...	2	...	...	2	...	2	...
acre-feet...	61,218	...	...	(D)	...	(D)	...
To farm and residential users and other							
irrigation organizations.....organizations...	...	...	...	...	...	...	...
Water to farm and residential							
users.....acre-feet...	...	...	...	...	...	...	...
Water to other irrigation							
organizations.....acre-feet...	...	...	...	...	...	...	...
To other irrigation organizations							
only.....organizations...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
All of water from other organizations.....organizations...	...	...	...	...	...	...	...
Total water conveyed.....acre-feet...	...	...	...	...	...	...	...
Water delivered.....acre-feet...	...	...	...	...	...	...	...
To farm and residential users							
only.....organizations...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
To farm and residential users and other							
irrigation organizations.....organizations...	...	...	...	...	...	...	...
Water to farm and residential							
users.....acre-feet...	...	...	...	...	...	...	...
Water to other irrigation							
organizations.....acre-feet...	...	...	...	...	...	...	...
To other irrigation organizations							
only.....organizations...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
No water conveyed.....organizations...	2	...	...	...	2	...	...
WATER FROM OTHER SOURCES							
Organizations reporting no water from other							
sources used on the land served by the							
organization.....organizations...	10	2	5	2	1	2	...
acres served...	133,631	(D)	42,240	(D)	11,900	(D)	...
acres irrigated...	90,578	(D)	29,884	(D)	6,470	(D)	...
water delivered to farms (acre-feet)...	122,981	(D)	51,479	(D)	9,465	(D)	...
acre-feet per acre...	1.4	(D)	1.7	(D)	1.5	(D)	...
Organizations reporting water from other							
sources used on land served by the							
organization.....organizations...	3	...	3	...	...	...	...
acres served...	21,416	...	21,416	...	...	...	...
acres irrigated...	15,890	...	15,890	...	...	...	...
water delivered to farms (acre-feet)...	39,320	...	39,320	...	...	...	...
acre-feet per acre...	2.5	...	2.5	...	...	...	...
NEW CAPITAL INVESTMENT, 1950-1959							
Expenditures for additional new works and							
equipment for irrigation and drainage...							
January 1, 1950-December 31, 1959.....organizations...	11	1	4	2	4	2	...
By U. S. B. R.....dollars...	42,240,944	...	...	(D)	38,414,301	(D)	...
By water users organizations.....dollars...	70,450	(D)	66,450	(D)	...	...	...

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

Item (For definitions and explanations, see text)	Kansas and Oklahoma, total						
	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users	
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
Total entering conveyance systems.....organizations... acre-feet....	14 237,995	2 (D)	8 117,634	2 (D)	2 75,140	2 (D)	...
From another drainage basin.....organizations... acre-feet....	1 31,047	...	...	1 (D)	...	1 (D)	...
From drainage basin.....D. B. No.....	...	...	...	...	...	...	...
From sources within basin.....organizations... acre-feet....	14 206,948	2 (D)	8 117,634	2 (D)	2 75,140	2 (D)	...
Surface water.....organizations... acre-feet....	14 206,948	2 (D)	8 117,634	2 (D)	2 75,140	2 (D)	...
Ground water.....organizations... acre-feet....	...	...	...	...	...	...	...
From other organizations in the basin..... organizations receiving... acre-feet....	1 55,294	...	...	1 (D)	...	1 (D)	...
Total leaving conveyance systems.....organizations... acre-feet....	14 237,995	2 (D)	8 117,634	2 (D)	2 19,846	2 (D)	...
Conveyance loss in basin.....organizations... acre-feet....	12 71,773	2 (D)	7 26,835	2 (D)	1 10,361	2 (D)	...
Conveyed to another drainage basin.....organizations... acre-feet....	...	...	...	...	...	...	...
To drainage basin number.....D. B. No.....	...	...	...	...	...	...	...
Delivered for use in the basin.....organizations... acre-feet....	13 166,222	2 (D)	8 90,799	2 (D)	1 9,465	2 (D)	...
To farm irrigation water users.....organizations... acre-feet....	13 162,301	2 (D)	8 90,799	2 (D)	1 9,465	2 (D)	...
To domestic water users.....organizations... acre-feet....	...	...	...	...	...	...	...
For other use.....organizations... acre-feet....	1 3,921	...	...	1 (D)	...	...	...
Delivered to other irrigation organizations..... organizations delivering... acre-feet....	1 55,294	...	...	...	1 55,294	1 (D)	...
SIZE OF ORGANIZATION, 1959							
Size of organization (number of farm irrigation water users):							
None.....organizations... 1 to 3 water users.....organizations... 4 to 9 water users.....organizations... 10 to 29 water users.....organizations... 30 to 99 water users.....organizations... 100 to 299 water users.....organizations... 300 to 999 water users.....organizations... 1,000 or more water users.....organizations...	3 ... 1 5 4 2 1 ...	(D) ... (D) (D) (D) (D) (D) ...	... ... ... 4	(D) ... (D) (D) (D) (D) (D) ...	3 1 ...	(D) (D) (D) (D) (D) (D) (D)	... ... ... ... ... ... ...
Size of organization (acre-feet of water delivered directly to farms):							
None.....organizations... 1 to 299 acre-feet.....organizations... 300 to 999 acre-feet.....organizations... 1,000 to 2,999 acre-feet.....organizations... 3,000 to 9,999 acre-feet.....organizations... 10,000 to 29,999 acre-feet.....organizations... 30,000 to 99,999 acre-feet.....organizations... 100,000 or more acre-feet.....organizations...	3 1 1 1 6 1 ...	(D) (D) (D) (D) (D) (D) ...	... ... ... 1 2 5 ...	(D) ... (D) (D) (D) (D) ...	3 1	(D) (D) (D) (D) (D) (D) (D)	... ... ... ... ... ... ...
Size of organization (acre-feet of water conveyed):							
None.....organizations... 1 to 299 acre-feet.....organizations... 300 to 999 acre-feet.....organizations... 1,000 to 2,999 acre-feet.....organizations... 3,000 to 9,999 acre-feet.....organizations... 10,000 to 29,999 acre-feet.....organizations... 30,000 to 99,999 acre-feet.....organizations... 100,000 or more acre-feet.....organizations...	2 2 ... 1 2 7 2 ...	(D) (D) (D) (D) (D) (D) (D) ...	... ... ... 1 2 5 ...	(D) ... (D) (D) (D) (D) (D) ...	2 1 ...	(D) (D) (D) (D) (D) (D) (D)	... ... ... ... ... ... ...

D Data not shown to avoid disclosure of information for individual organizations.

State Table 5.—NUMBER OF IRRIGATION ORGANIZATIONS, TYPE OF SERVICE, NEW CAPITAL INVESTMENT. AND WATER CONVEYED, BY SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUS OF 1959

Item (For definitions and explanations, see text)	Kansas and Oklahoma, total			
	Size of organization, by total water conveyed			
	0-999 acre-feet	1,000-9,999 acre-feet	10,000-99,999 acre-feet	100,000 or more acre-feet
1 Number of organizations.....organizations...	4	3	9	...
TYPE OF SERVICE				
2 All water directly from surface and ground sources.....organizations...	2	3	7	...
3 Total water conveyed.....acre-feet...	1,080	11,522	181,252	...
4 Water delivered.....acre-feet...	819	9,637	145,921	...
5 To farm and residential users only.....organizations...	2	3	6	...
6 To farm and residential users only.....acre-feet...	819	9,637	90,627	...
7 To farm and residential users and other irrigation organizations.....organizations...	...	...	...	...
8 Water to farm and residential users.....acre-feet...	...	...	...	...
9 Water to other irrigation organizations.....acre-feet...	...	...	...	...
10 To other irrigation organizations only.....organizations...	...	...	1	...
11 To other irrigation organizations only.....acre-feet...	...	...	55,294	...
12 Part of water from other organizations.....organizations...	...	...	2	...
13 Total water conveyed.....acre-feet...	...	...	99,435	...
14 From surface and ground water sources.....acre-feet...	...	...	13,094	...
15 From other irrigation organizations.....acre-feet...	...	...	86,341	...
16 Water delivered.....acre-feet...	...	...	61,218	...
17 To farm and residential users only.....organizations...	...	...	2	...
18 To farm and residential users only.....acre-feet...	...	...	61,218	...
19 To farm and residential users and other irrigation organizations.....organizations...	...	...	...	...
20 Water to farm and residential users.....acre-feet...	...	...	...	...
21 Water to other irrigation organizations.....acre-feet...	...	...	...	...
22 To other irrigation organizations only.....organizations...	...	...	...	...
23 To other irrigation organizations only.....acre-feet...	...	...	...	...
24 All of water from other organizations.....organizations...	...	...	...	...
25 Total water conveyed.....acre-feet...	...	...	...	...
26 Water delivered.....acre-feet...	...	...	...	...
27 To farm and residential users only.....organizations...	...	...	...	...
28 To farm and residential users only.....acre-feet...	...	...	...	...
29 To farm and residential users and other irrigation organizations.....organizations...	...	...	...	...
30 Water to farm and residential users.....acre-feet...	...	...	...	...
31 Water to other irrigation organizations.....acre-feet...	...	...	...	...
32 To other irrigation organizations only.....organizations...	...	...	...	...
33 To other irrigation organizations only.....acre-feet...	...	...	...	...
34 No water conveyed.....organizations...	2	...	...	...
WATER FROM OTHER SOURCES				
35 Organizations reporting no water from other sources used on land served by the organization.....organizations...	2	2	6	...
36 acres served.....acres...	845	5,100	127,686	...
37 acres irrigated.....acres...	570	4,600	85,408	...
38 Organizations reporting water from other sources used on land served by the organization.....organizations...	...	1	2	...
39 acres served.....acres...	...	1,416	20,000	...
40 acres irrigated.....acres...	...	1,290	14,600	...
NEW CAPITAL INVESTMENT, 1950-1959				
41 Expenditures for additional new works and equipment for irrigation and drainage, January 1, 1950-December 31, 1959.....dollars...	3	1	7	...
42 .....dollars...	20,084,132	3,850	22,223,412	...
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959				
43 Total entering conveyance systems in basin.....organizations...	2	3	9	...
44 .....acre-feet...	1,080	11,522	225,393	...
45 From another drainage basin.....organizations...	...	...	1	...
46 .....acre-feet...	...	...	31,047	...
47 From Drainage Basin number.....D. B. No. ....organizations...	2	3	...	...
48 From natural sources within basin.....acre-feet...	1,080	11,522	194,346	...
49 Surface water.....organizations...	2	3	9	...
50 .....acre-feet...	1,080	11,522	194,346	...
51 Ground water.....organizations...	...	...	...	...
52 .....acre-feet...	...	...	...	...
53 From other organizations in the basin.....organizations receiving...	...	...	1	...
54 .....acre-feet...	...	...	55,294	...
55 .....acre-feet...	...	...	9	...
56 Total leaving conveyance systems.....organizations...	2	3	9	...
57 .....acre-feet...	1,080	11,522	225,393	...
58 Conveyance loss in basin.....organizations...	2	3	7	...
59 .....acre-feet...	261	1,885	69,627	...
60 Conveyed to another drainage basin.....organizations...	...	...	...	...
61 .....acre-feet...	...	...	...	...
62 To drainage basin number.....D. B. No. ....organizations...	2	3	8	...
63 Delivered for use in the basin.....acre-feet...	819	9,637	155,766	...
64 To farm irrigation water users.....organizations...	2	3	...	...
65 To farm irrigation water users.....acre-feet...	819	9,637	151,845	...
66 To residential water users.....organizations...	...	...	...	...
67 To residential water users.....acre-feet...	...	...	...	...
68 For other use.....organizations...	...	...	...	...
69 For other use.....acre-feet...	...	...	3,921	...
70 Delivered to other irrigation organizations.....organizations delivering...	...	...	1	...
71 .....acre-feet...	...	...	55,294	...
72 .....acre-feet...	...	...	...	...
AVERAGE DELIVERY OF IRRIGATION WATER PER ACRE, 1959				
73 Per acre irrigated, as reported by irrigation organization:.....acre-feet...	1.4	1.6	1.5	...
74 Organizations reporting no water from other sources used on land served by the organization.....organizations...	2	2	6	...
75acre-feet...	1.4	1.1	1.4	...

LOUISIANA

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State Table 1.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY DRAINAGE BASINS:
CENSUSES OF 1959 AND 1950

Item (For definitions and explanations, see text)	The State	Gulf of Mexico excluding Mississippi River, total	Gulf of Mexico excluding Mississippi and Mermentau Rivers (V-A)						
			Total	Gulf of Mexico direct	Sabine River	Calcasieu River			Vermilion River and Atchafalaya River
						Total	Calcasieu River direct	Bayou Serpent	
				(1a)	(9a)		(10a)	(10b)	(11, 12)
1 Total acres irrigated in Census year.....1959...	484,830	467,000	188,000	27,000	8,000	88,000	64,000	24,000	65,000
2 .....1949...	597,966	589,996	224,393	15,317	19,703	101,809	64,420	37,389	87,564
3 Irrigation organizations.....organizations.....1959...	203	203	35	3	3	19	12	11	13
4 .....1949...	321	321	77	2	2	44	23	25	31
5 Service area, 1959:									
6 Farm area reported served by organizations.....acres 1959...	297,471	297,471	68,919	4,937	16,814	31,115	20,533	10,582	16,053
7 Farm area reported irrigated by organizations.....acres 1959...	185,539	185,539	60,532	4,937	11,022	29,745	20,280	9,465	14,828
8 Water users served, total.....water users 1959...	2,946	2,946	581	24	44	192	119	73	321
9 Farm irrigation water users.....water users 1959...	2,946	2,946	581	24	44	192	119	73	321
10 Residential water users.....water users 1959...	...	...	...	...	...	...	...	...	...
11 Other water users.....water users 1959...	...	...	...	...	...	...	...	...	...
12 LAND IRRIGATED BY SOURCE OF WATER, 1959									
13 Ground water sources.....acres...	263,482	255,000	78,000	9,000	3,000	44,000	28,000	16,000	22,000
14 Surface water sources.....acres...	221,368	212,000	110,000	18,000	5,000	44,000	36,000	8,000	43,000
15 WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959									
16 Total entering conveyance systems in basin.....organizations.....acre-feet...	203	203	35	3	3	19	12	11	13
17 .....1949...	617,850	617,860	265,901	11,609	67,609	122,671	89,545	36,675	83,193
18 From another drainage basin.....organizations.....acre-feet...	...	...	3	2	...	4	4	2	...
19 .....1949...	...	...	2,182	2,295	...	19,068	19,963	2,654	...
20 From drainage basin number.....D. B. No. ....	...	...	...	(1)	...	...	(2)	(2)	...
21 From natural sources within basin.....organizations.....acre-feet...	203	203	34	2	3	16	8	8	13
22 .....1949...	617,850	617,850	263,719	9,314	67,609	103,603	69,582	34,021	83,193
23 Surface water.....organizations.....acre-feet...	68	68	18	2	3	8	6	2	6
24 .....1949...	516,572	516,572	248,022	9,314	65,061	94,044	67,504	26,540	79,603
25 Ground water.....organizations.....acre-feet...	148	148	16	...	1	8	2	7	7
26 .....1949...	101,278	101,278	15,697	...	2,548	9,559	2,078	7,481	3,590
27 From other organizations in the basin.....organizations receiving.....acre-feet...	...	...	...	...	...	...	...	...	...
28 .....1949...	...	...	...	...	...	...	...	...	...
29 Total leaving conveyance systems.....organizations.....acre-feet...	203	203	35	3	3	19	12	11	13
30 .....1949...	617,850	617,850	265,901	11,609	67,609	122,671	89,545	36,675	83,193
31 Conveyance loss in basin.....organizations.....acre-feet...	170	170	27	2	3	16	11	9	13
32 .....1949...	50,046	50,046	20,770	120	4,889	6,490	3,282	3,208	9,271
33 Conveyed to another drainage basin.....organizations.....acre-feet...	...	...	3	1	1	1	1	1	1
34 .....1949...	...	...	18,306	2,000	16,651	835	2,292	2,132	18,001
35 To drainage basin number.....D. B. No. ....	...	...	...	(4)	VA-10a	VD-1	(5)	VA-10a	(6)
36 Delivered for use in the basin.....organizations.....acre-feet...	203	203	35	3	3	19	12	11	13
37 .....1949...	567,804	567,804	226,825	9,489	46,069	115,346	84,011	31,335	55,921
38 To farm irrigation water users.....organizations.....acre-feet...	203	203	35	3	3	19	12	11	13
39 .....1949...	567,804	567,804	226,825	9,489	46,069	115,346	84,011	31,335	55,921
40 To residential water users.....organizations.....acre-feet...	...	...	...	...	...	...	...	...	...
41 .....1949...	...	...	...	...	...	...	...	...	...
42 For other use.....organizations.....acre-feet...	...	...	...	...	...	...	...	...	...
43 .....1949...	...	...	...	...	...	...	...	...	...
44 Delivered to other irrigation organizations.....organizations delivering.....acre-feet...	...	...	...	...	...	...	...	...	...
45 .....1949...	...	...	...	...	...	...	...	...	...
46 Average delivery of irrigation water per acre irrigated as reported by organizations.....acre-feet...	3.1	3.1	3.7	1.9	4.2	3.9	4.1	3.3	3.8
47 NEW CAPITAL INVESTMENT, 1950-1959									
48 Expenditures for additional new works and equipment for irrigation and drainage, Jan. 1, 1950-Dec. 31, 1959.....organizations.....dollars...	109	109	15	1	2	5	3	2	8
49 .....1949...	2,054,686	2,054,686	284,700	30,000	113,000	81,500	61,000	20,500	60,200

¹1,730 acre-feet from D. B. No. V-A-11, 565 acre-feet from D. B. No. V-D-1. ²380 acre-feet from D. B. No. V-D-1, 2,132 acre-feet from D. B. No. V-A-10b, 800 acre-feet from D. B. No. V-A-1a, 16,651 acre-feet from D. B. No. V-A-10a, 1,297 acre-feet from D. B. No. V-D-2. ³1,200 acre-feet to D. B. No. V-D-1, 800 acre-feet to D. B. No. V-A-10a. ⁴1,617 acre-feet to D. B. No. V-A-10b, 835 acre-feet to D. B. No. V-D-1. ⁵16,271 acre-feet to D. B. No. V-D-3, 1,730 acre-feet to D. B. No. V-A-1a.

State Table 1.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY DRAINAGE BASINS:
CENSUSES OF 1959 AND 1950—Continued

Item (For definitions and explanations, see text)	Mermentau River (V-D)				Mississippi River (VI-A)		
	Total	Mermentau River direct	Nespeigue Bayou	Bayou Queue de Tortue	Total	Mississippi River direct	Red River
	(1)	(2)	(3)		(1)	(2a)	
1 Total acres irrigated in Census year.....1959...	279,000	91,000	123,000	65,000	18,000	15,000	3,000
2 .....1949...	365,603	94,713	180,506	90,384	7,970	6,321	1,649
3 Irrigation organizations.....organizations 1959...	176	27	136	19	...	...	...
4 .....1949...	252	27	193	41	...	...	...
5 Service area, 1959:							
6 Farm area reported served by organizations.....acres 1959...	228,552	34,241	173,179	21,132	...	...	...
7 Farm area reported irrigated by organizations.....acres 1959...	125,007	28,101	80,784	16,122	...	...	...
8 Water users served, total.....water users 1959...	2,365	430	1,661	274	...	...	...
9 Farm irrigation water users.....water users 1959...	2,365	430	1,661	274	...	...	...
10 Residential water users.....water users 1959...	...	...	...	...	...	...	...
Other water users.....water users 1959...	...	...	...	...	...	...	...
LAND IRRIGATED BY SOURCE OF WATER, 1959							
11 Ground water sources.....acres...	177,000	39,000	100,000	38,000	9,000	8,000	1,000
12 Surface water sources.....acres...	102,000	52,000	23,000	27,000	9,000	7,000	2,000
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
13 Total entering conveyance systems in basin.....organizations...	175	27	136	19	...	...	...
14 .....acre-feet...	372,437	123,751	240,187	64,927	...	...	...
15 From another drainage basin.....organizations...	2	4	...	3	...	...	...
16 .....acre-feet...	16,271	26,487	...	48,247	...	...	...
17 From drainage basin number.....D. B. No. ....	...	(1)	...	(2)	...	...	...
18 From natural sources within basin.....organizations...	173	21	136	18	...	...	...
19 .....acre-feet...	354,131	97,264	240,187	16,680	...	...	...
20 Surface water.....organizations...	52	14	32	8	...	...	...
21 .....acre-feet...	268,550	86,938	170,842	10,770	...	...	...
22 Ground water.....organizations...	132	7	112	13	...	...	...
23 .....acre-feet...	85,581	10,326	69,345	5,910	...	...	...
24 From other organizations in the basin.....organizations receiving...	...	...	...	...	...	...	...
25 .....acre-feet...	...	...	...	...	...	...	...
26 Total leaving conveyance systems.....organizations...	175	27	136	19	...	...	...
27 .....acre-feet...	372,437	123,751	240,187	64,927	...	...	...
28 Conveyance loss in basin.....organizations...	148	20	116	19	...	...	...
29 .....acre-feet...	29,276	6,325	13,289	9,662	...	...	...
30 Conveyed to another drainage basin.....organizations...	4	1	1	1	...	...	...
31 .....acre-feet...	380	29,630	28,604	376	...	...	...
32 To drainage basin number.....D. B. No. ....	...	(3)	(4)	DB-VD-1	...	...	...
33 Delivered for use in the basin.....organizations...	175	27	136	19	...	...	...
34 .....acre-feet...	340,979	87,796	198,294	54,889	...	...	...
35 To farm irrigation water users.....organizations...	175	27	136	19	...	...	...
36 .....acre-feet...	340,979	87,796	198,294	54,889	...	...	...
37 To residential water users.....organizations...	...	...	...	...	...	...	...
38 .....acre-feet...	...	...	...	...	...	...	...
39 For other use.....organizations...	...	...	...	...	...	...	...
40 .....acre-feet...	...	...	...	...	...	...	...
41 Delivered to other irrigation organizations.....organizations delivering...	...	...	...	...	...	...	...
42 .....acre-feet...	...	...	...	...	...	...	...
43 Average delivery of irrigation water per acre irrigated as reported by organizations.....acre-feet...	2.7	3.1	1.1	3.4	...	...	...
NEW CAPITAL INVESTMENT, 1950-1959							
44 Expenditures for additional new works and equipment for irrigation and drainage, Jan. 1, 1950-Dec. 31, 1959.....organizations...	95	74	12	12	...	...	...
45 .....dollars...	1,769,986	141,740	1,526,649	101,597	...	...	...

¹24,076 acre-feet from D. B. No. V-D-2, 376 acre-feet from D. B. No. V-D-3, 1,200 acre-feet from D. B. No. V-A-1a, 835 acre-feet from D. B. No. V-A-10a. ²3,291 acre-feet from D. B. No. V-D-2, 28,685 acre-feet from D. B. No. V-D-1, 16,271 acre-feet from D. B. No. V-A-11. ³380 acre-feet to D. B. No. V-A-10a, 565 acre-feet to D. B. No. V-A-1a, 28,685 acre-feet to D. B. No. V-D-2. ⁴1,237 acre-feet to D. B. No. V-A-10b, 3,291 acre-feet to D. B. No. V-D-3, 24,076 acre-feet to D. B. No. V-D-1.

IRRIGATION OF AGRICULTURAL LANDS

State Table 2.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950

Item (For definitions and explanations, see text)	Louisiana, total	Item (For definitions and explanations, see text)	Louisiana, total
TYPE OF SERVICE, 1959			
Irrigation organizations, total		All water directly from surface and	
number.....organizations 1959...	203	ground water sources.....organizations...	203
1949...	321	Total water conveyed.....acre-feet...	617,850
Area irrigated as reported by		Water delivered.....acre-feet...	567,804
organizations.....acres 1959...	185,539	To farm and residential	
1949...	260,897	users only.....organizations...	203
Farm water users served directly.....water users 1959...	2,946	acre-feet...	567,804
Total water conveyed.....acre-feet 1959...	617,850		
TYPE OF ORGANIZATION			
Mutual:		To farm and residential users and other	
Unincorporated.....organizations 1959...	37	irrigation organizations.....organizations...	...
1949...	47	Water to farm and residential	
Farm area irrigated directly.....acres 1959...	(D)	users.....acre-feet...	...
Farm water users served		Water to other irrigation	
directly.....water users 1959...	(D)	organizations.....acre-feet...	...
Total water conveyed.....acre-feet 1959...	(D)	To other irrigation organizations	
		only.....organizations...	...
Incorporated.....organizations 1959...	1	acre-feet...	...
1949...	4	Part of water from other	
Farm area irrigated directly.....acres 1959...	(D)	organizations.....organizations...	...
Farm water users served		Total water conveyed.....acre-feet...	...
directly.....water users 1959...	(D)	From surface and ground water	
Total water conveyed.....acre-feet 1959...	(D)	sources.....acre-feet...	...
District.....organizations 1959...	...	From other irrigation	
1949...	...	organizations.....acre-feet...	...
Farm area irrigated directly.....acres 1959...	...	Water delivered.....acre-feet...	...
Farm water users served		To farm and residential	
directly.....water users 1959...	...	users only.....organizations...	...
Total water conveyed.....acre-feet 1959...	...	acre-feet...	...
U.S. Bureau of Reclamation; projects and stor-		To farm and residential users and other	
age systems operated by bureau.....organizations 1959...	...	irrigation organizations.....organizations...	...
1949...	...	Water to farm and residential	
Farm area irrigated directly.....acres 1959...	...	users.....acre-feet...	...
Farm water users served		Water to other irrigation	
directly.....water users 1959...	...	organizations.....acre-feet...	...
Total water conveyed.....acre-feet 1959...	...	To other irrigation organizations	
		only.....organizations...	...
U. S. Bureau of Reclamation; operated		acre-feet...	...
by water users.....organizations 1959...	...	All of water from other	
1949...	...	organizations.....organizations...	...
Farm area irrigated directly.....acres 1959...	...	Total water conveyed.....acre-feet...	...
Farm water users served		Water delivered.....acre-feet...	...
directly.....water users 1959...	...	To farm and residential	
Total water conveyed.....acre-feet 1959...	...	users only.....organizations...	...
U. S. Bureau of Indian Affairs.....organizations 1959...	...	acre-feet...	...
1949...	...	To farm and residential users	
Farm area irrigated directly.....acres 1959...	...	and other irrigation	
Farm water users served		organizations.....organizations...	...
directly.....water users 1959...	...	Water to farm and residential	
Total water conveyed.....acre-feet 1959...	...	users.....acre-feet...	...
Commercial.....organizations 1959...	165	Water to other irrigation	
1949...	270	organizations.....acre-feet...	...
Farm area irrigated directly.....acres 1959...	175,837	To other irrigation organizations	
Farm water users served		only.....organizations...	...
directly.....water users 1959...	2,806	acre-feet...	...
Total water conveyed.....acre-feet 1959...	593,582	No water conveyed.....organizations...	...
State.....organizations 1959...	...	WATER FROM OTHER SOURCES	
1949...	...	Organizations reporting no water from	
Farm area irrigated directly.....acres 1959...	...	other sources used on land served	
Farm water users served		by the organization.....organizations...	203
directly.....water users 1959...	...	acres served...	297,471
Total water conveyed.....acre-feet 1959...	...	acres irrigated...	185,539
City.....organizations 1959...	...	Water delivered to farms.....acre-feet...	567,804
1949...	...	acre-feet per acre...	3.1
Farm area irrigated directly.....acres 1959...	...	Organizations reporting water from other	
Farm water users served		sources used on land served by the	
directly.....water users 1959...	...	organization.....organizations...	...
Total water conveyed.....acre-feet 1959...	...	acres irrigated...	...
		Water delivered to farms.....acre-feet...	...
		acre-feet per acre...	...

D Data not shown to avoid disclosure of information for individual organizations.

State Table 2.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Continued

Item (For definitions and explanations, see text)	Louisiana, total	Item (For definitions and explanations, see text)	Louisiana, total
WATER DELIVERED PER ACRE		SIZE OF ORGANIZATION—Continued	
Organizations reporting NO water from other sources used on same land:		Size of organization (acre-feet of water delivered directly to farms):	
0.1 to 0.9 acre-feet per acre.....organizations...	4	None.....organizations...	...
1.0 to 1.9 acre-feet per acre.....acres irrigated...	1,139	1 to 299 acre-feet.....organizations...	47
2.0 to 2.9 acre-feet per acre.....acres irrigated...	27,481	300 to 999 acre-feet.....acres-feet...	9,665
3.0 to 3.9 acre-feet per acre.....organizations...	90	1,000 to 2,999 acre-feet.....organizations...	34
4.0 to 4.9 acre-feet per acre.....acres irrigated...	23,157	3,000 to 9,999 acre-feet.....acres-feet...	55,375
5.0 to 5.9 acre-feet per acre.....organizations...	12	10,000 to 29,999 acre-feet.....organizations...	6
6.0 to 6.9 acre-feet per acre.....acres irrigated...	50,289	30,000 to 99,999 acre-feet.....acres-feet...	91,213
7.0 to 7.9 acre-feet per acre.....organizations...	2	100,000 or more acre-feet.....organizations...	4
8.0 to 8.9 acre-feet per acre.....acres irrigated...	8,713	10,000 or more acre-feet.....acres-feet...	172,378
9.0 to 9.9 acre-feet per acre.....organizations...	...	Size of organization (acre-feet of water conveyed):	
10.0 or more acre-feet per acre.....acres irrigated...	...	None.....organizations...	...
SIZE OF ORGANIZATION		1 to 299 acre-feet.....organizations...	43
Size of organization (number of farm irrigation water users served directly):		300 to 999 acre-feet.....acres-feet...	9,020
None.....organizations...	...	1,000 to 2,999 acre-feet.....organizations...	98
1 to 3.....organizations...	99	3,000 to 9,999 acre-feet.....acres-feet...	56,311
4 to 9.....water users...	224	10,000 to 29,999 acre-feet.....organizations...	35
10 to 29.....organizations...	78	30,000 to 99,999 acre-feet.....acres-feet...	58,817
30 to 99.....water users...	424	100,000 or more acre-feet.....organizations...	16
100 to 299.....organizations...	13	10,000 or more acre-feet.....acres-feet...	84,511
300 to 999.....water users...	211	Size of organization (acre-feet of water conveyed):	
1,000 or more.....organizations...	9	None.....organizations...	...
1,000 or more.....water users...	378	1 to 299 acre-feet.....organizations...	43
1,000 or more.....organizations...	1	300 to 999 acre-feet.....acres-feet...	9,020
1,000 or more.....water users...	345	1,000 to 2,999 acre-feet.....organizations...	35
1,000 or more.....organizations...	3	3,000 to 9,999 acre-feet.....acres-feet...	58,817
1,000 or more.....water users...	1,597	10,000 to 29,999 acre-feet.....organizations...	16
1,000 or more.....organizations...	...	30,000 to 99,999 acre-feet.....acres-feet...	84,511
1,000 or more.....water users...	...	100,000 or more acre-feet.....organizations...	6
	...	10,000 or more acre-feet.....acres-feet...	199,365
	...	30,000 to 99,999 acre-feet.....organizations...	4
	...	100,000 or more acre-feet.....acres-feet...	183,100
	...	10,000 or more acre-feet.....organizations...	1
	...	30,000 to 99,999 acre-feet.....acres-feet...	128,004
	...	100,000 or more acre-feet.....organizations...	...

State Table 3.—LAND IRRIGATED BY SOURCE OF WATER, BY DRAINAGE BASINS: CENSUS OF 1959

Item (For definitions and explanations, see text)	Louisiana, total	Item (For definitions and explanations, see text)	Louisiana, total
Total acres irrigated.....farms reporting...	4,817	LAND IRRIGATED, BY SOURCE OF WATER TO INDIVIDUAL FARMS, 1959—Continued	
acres...	484,850	Surface sources on farm.....farms reporting...	1,058
Acres irrigated by sprinklers.....farms reporting...	166	acres...	130,478
acres...	4,419	Surface sources on farm only.....farms reporting...	792
Sprinklers only.....farms reporting...	150	acres...	105,718
acres...	4,052	Irrigation organization sources.....farms reporting...	1,198
		acres...	108,710
LAND IRRIGATED, BY SOURCE OF WATER TO INDIVIDUAL FARMS, 1959		Irrigation organizations sources only.....farms reporting...	888
Ground water sources on farm.....farms reporting...	3,047	acres...	81,305
acres...	245,662	Both farm ground water sources and surface sources.....farms reporting...	156
Ground water sources on farm only...farms reporting...	2,672	acres...	33,597
acres...	209,972	Both irrigation organization and farm ground water or farm surface sources.....farms reporting...	309
		acres...	54,258

Item (For definitions and explanations, see text)	Louisiana, total						
	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users	
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
Total entering conveyance systems.....organizations...	203	37	1	...	...	...	165
acre-feet...	617,850	(D)	(D)	...	...	...	593,582
From another drainage basin.....organizations...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
From drainage basin.....D. B. No.....	...	...	...	...	...	...	...
From sources within basin.....organizations...	203	37	1	...	...	...	165
acre-feet...	617,850	(D)	(D)	...	...	...	593,582
Surface water.....organizations...	68	9	...	...	...	...	59
acre-feet...	516,572	(D)	...	...	...	...	510,390
Ground water.....organizations...	148	30	1	...	...	...	117
acre-feet...	101,278	(D)	(D)	...	...	...	83,192
From other organizations in the basin.....organizations receiving...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
Total leaving conveyance systems.....organizations...	203	37	1	...	...	...	165
acre-feet...	617,850	(D)	(D)	...	...	...	593,582
Conveyance loss in basin.....organizations...	170	32	1	...	...	...	137
acre-feet...	50,046	(D)	(D)	...	...	...	48,466
Conveyed to another drainage basin.....organizations...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
To drainage basin number.....D. B. No.....	...	...	...	...	...	...	...
Delivered for use in the basin.....organizations...	203	37	1	...	...	...	165
acre-feet...	567,804	(D)	(D)	...	...	...	545,116
To farm irrigation water users.....organizations...	203	37	...	...	...	...	165
acre-feet...	567,804	(D)	(D)	...	...	...	545,116
To domestic water users.....organizations...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
For other use.....organizations...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
Delivered to other irrigation organizations.....organizations delivering...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
SIZE OF ORGANIZATION, 1959							
Size of organization (number of farm irrigation water users):							
None.....organizations...	...	...	...	...	...	...	...
1 to 3 water users.....organizations...	99	(D)	(D)	...	...	...	74
4 to 9 water users.....organizations...	78	(D)	(D)	...	...	...	66
10 to 29 water users.....organizations...	13	(D)	(D)	...	...	...	12
30 to 99 water users.....organizations...	9	(D)	(D)	...	...	...	9
100 to 299 water users.....organizations...	1	(D)	(D)	...	...	...	1
300 to 999 water users.....organizations...	3	(D)	(D)	...	...	...	3
1,000 or more water users.....organizations...	...	...	...	...	...	...	...
Size of organization (acre-feet of water delivered directly to farms):							
None.....organizations...	...	...	...	...	...	...	...
1 to 299 acre-feet.....organizations...	47	(D)	(D)	...	...	...	34
300 to 999 acre-feet.....organizations...	95	(D)	(D)	...	...	...	76
1,000 to 2,999 acre-feet.....organizations...	34	(D)	(D)	...	...	...	29
3,000 to 9,999 acre-feet.....organizations...	16	(D)	(D)	...	...	...	16
10,000 to 29,999 acre-feet.....organizations...	6	(D)	(D)	...	...	...	6
30,000 to 99,999 acre-feet.....organizations...	4	(D)	(D)	...	...	...	4
100,000 or more acre-feet.....organizations...	1	(D)	(D)	...	...	...	1
Size of organization (acre-feet of water conveyed):							
None.....organizations...	...	...	...	...	...	...	...
1 to 299 acre-feet.....organizations...	43	(D)	(D)	...	...	...	32
300 to 999 acre-feet.....organizations...	98	(D)	(D)	...	...	...	77
1,000 to 2,999 acre-feet.....organizations...	35	(D)	(D)	...	...	...	30
3,000 to 9,999 acre-feet.....organizations...	16	(D)	(D)	...	...	...	16
10,000 to 29,999 acre-feet.....organizations...	6	(D)	(D)	...	...	...	6
30,000 to 99,999 acre-feet.....organizations...	4	(D)	(D)	...	...	...	4
100,000 or more acre-feet.....organizations...	1	(D)	(D)	...	...	...	1

D Data not shown to avoid disclosure of information for individual organizations.

State Table 5.—NUMBER OF IRRIGATION ORGANIZATIONS, TYPE OF SERVICE, NEW CAPITAL INVESTMENT, AND WATER CONVEYED, BY SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUS OF 1959

Item (For definitions and explanations, see text)	Louisiana, total			
	Size of organization, by total water conveyed			
	0-999 acre-feet	1,000-9,999 acre-feet	10,000 or more acre-feet	
1 Number of organizations.....Organizations...	141	51	11	
TYPE OF SERVICE				
2 All water directly from surface and ground sources.....Organizations...	141	51	11	
3 Total water conveyed.....acre-feet...	65,331	143,328	409,191	
4 Water delivered.....acre-feet...	60,519	133,765	373,520	
5 To farm and residential users only.....Organizations...	141	51	11	
6 To farm and residential users only.....acre-feet...	60,519	133,765	373,520	
7 To farm and residential users and other irrigation organizations.....Organizations...	...	...	...
8 Water to farm and residential users.....acre-feet...	...	...	...
9 Water to other irrigation organizations.....acre-feet...	...	...	...
10 To other irrigation organizations only.....Organizations...	...	...	...
11 To other irrigation organizations only.....acre-feet...	...	...	...
12 Part of water from other organizations.....Organizations...	...	...	...
13 Total water conveyed.....acre-feet...	...	...	...
14 From surface and ground water sources.....acre-feet...	...	...	...
15 From other irrigation organizations.....acre-feet...	...	...	...
16 Water delivered.....acre-feet...	...	...	...
17 To farm and residential users only.....Organizations...	...	...	...
18 To farm and residential users only.....acre-feet...	...	...	...
19 To farm and residential users and other irrigation organizations.....Organizations...	...	...	...
20 Water to farm and residential users.....acre-feet...	...	...	...
21 Water to other irrigation organizations.....acre-feet...	...	...	...
22 To other irrigation organizations only.....Organizations...	...	...	...
23 To other irrigation organizations only.....acre-feet...	...	...	...
24 All of water from other organizations.....Organizations...	...	...	...
25 Total water conveyed.....acre-feet...	...	...	...
26 Water delivered.....acre-feet...	...	...	...
27 To farm and residential users only.....Organizations...	...	...	...
28 To farm and residential users only.....acre-feet...	...	...	...
29 To farm and residential users and other irrigation organizations.....Organizations...	...	...	...
30 Water to farm and residential users.....acre-feet...	...	...	...
31 Water to other irrigation organizations.....acre-feet...	...	...	...
32 To other irrigation organizations only.....Organizations...	...	...	...
33 To other irrigation organizations only.....acre-feet...	...	...	...
34 No water conveyed.....Organizations...	...	...	...
WATER FROM OTHER SOURCES				
35 Organizations reporting NO water from other sources used on land served by the organization.....Organizations...	141	51	11	
36 acres served.....	50,117	137,590	109,764	
37 acres irrigated.....	29,943	51,344	104,052	
38 Organizations reporting water from other sources used on land served by the organization.....Organizations...	...	...	...
39 acres served.....	...	...	...
40 acres irrigated.....	...	...	...
NEW CAPITAL INVESTMENT, 1950-1959				
41 Expenditures for additional new works and equipment for irrigation and drainage, January 1, 1950-December 31, 1959.....Organizations...	77	29	3	
42 dollars.....	493,712	768,974	792,000	
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959				
43 Total entering conveyance systems in basin.....Organizations...	141	51	11	
44 acre-feet.....	65,331	143,328	409,191	
45 From another drainage basin.....Organizations...	...	...	...
46 acre-feet.....	...	...	...
47 From drainage basin number.....D. B. No.....	...	...	...
48 From natural sources within basin.....Organizations...	141	51	11	
49 acre-feet.....	65,331	143,328	409,191	
50 Surface water.....Organizations...	23	34	11	
51 acre-feet.....	9,680	97,701	409,191	
52 Ground water.....Organizations...	124	24	...	
53 acre-feet.....	55,651	45,627	...	
54 From other organizations in the basin.....Organizations receiving...	...	...	...
55 acre-feet.....	...	...	...
56 Total leaving conveyance systems.....Organizations...	141	51	11	
57 acre-feet.....	65,331	143,328	409,191	
58 Conveyance loss in basin.....Organizations...	121	39	10	
59 acre-feet.....	4,812	9,565	35,671	
60 Conveyed to another drainage basin.....Organizations...	...	...	...
61 acre-feet.....	...	...	...
62 To drainage basin number.....D. B. No.....	...	...	...
63 Delivered for use in the basin.....Organizations...	141	51	11	
64 acre-feet.....	60,519	133,765	373,520	
65 To farm irrigation water users.....Organizations...	141	51	11	
66 acre-feet.....	60,519	133,765	373,520	
67 To residential water users.....Organizations...	...	...	...
68 acre-feet.....	...	...	...
69 For other use.....Organizations...	...	...	...
70 acre-feet.....	...	...	...
71 Delivered to other irrigation organizations.....Organizations delivering...	...	...	...
72 acre-feet.....	...	...	...
AVERAGE DELIVERY OF IRRIGATION WATER PER ACRE, 1959				
73 Per acre irrigated, as reported by irrigation organization:				
74 All organizations.....acre-feet...	2.0	2.6	4.8	
75 Organizations reporting NO water from other sources used on land served by the organization.....Organizations...	141	51	11	
acre-feet.....	2.0	2.6	3.4	

MONTANA

(201)

IRRIGATION OF AGRICULTURAL LANDS

State Table 1.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS.

Item (For definitions and explanations, see text)	The State	Columbia River above Snake River excluding Yakima River (I-C)							
		Total	Clark Fork				Flathead River		
			Total	Clark Fork direct below Missoula	Clark Fork direct above Missoula	Total	Flathead River direct below Polson	Upper Flathead River direct above Polson and Little Bitterroot River (8d, e)	
(8a)	(8b)	(8c)	(8d)	(8e)					
1	Total acres irrigated in Census year.....1959...	1,874,520	368,000	364,000	14,000	93,000	117,000	87,000	30,000
2	.....1949...	1,808,576	351,042	347,165	16,796	84,647	104,701	87,862	16,839
3	Irrigation organizations.....organizations.....1959...	1,050	299	293	18	59	49	29	20
4	.....1949...	1,234	397	386	19	64	56	31	27
5	Service area, 1959: Farm area reported served by organizations.....acres 1959...	1,642,968	316,089	313,457	18,913	58,693	119,940	105,390	14,550
6	Farm area reported irrigated by organizations.....acres 1959...	1,347,197	266,578	264,588	17,685	35,392	110,451	97,265	13,186
7	Water users served, total.....water users 1959...	17,181	6,658	6,597	1,136	347	3,291	2,878	413
8	Farm irrigation water users.....water users 1959...	14,773	5,230	5,169	1,024	281	2,043	1,640	403
9	Residential water users.....water users 1959...	2,395	1,426	1,426	110	66	1,248	1,238	10
10	Other water users.....water users 1959...	13	2	2	2	...	...	...	...
	LAND IRRIGATED BY SOURCE OF WATER, 1959								
11	Ground water sources.....acres...	34,015	14,000	14,000	1,000	3,000	6,000	1,000	5,000
12	Surface water sources.....acres...	1,840,505	354,000	350,000	13,000	90,000	111,000	86,000	25,000
	WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959								
13	Total entering conveyance systems in basin.....organizations.....acre-feet...	1,044 5,973,077	298 1,015,513	292 1,010,526	18 53,434	59 140,841	49 348,545	29 319,338	20 29,207
14	From another drainage basin.....organizations.....acre-feet...	3 2,786	...	...	...	...	...	...	...
15	From drainage basin number.....D. B. No....	...	...	...	...	...	...	...	...
16	From natural sources within basin.....organizations.....acre-feet...	1,017 5,970,291	298 1,015,513	292 1,010,526	18 53,434	59 140,841	49 348,545	29 319,338	20 29,207
17	Surface water.....organizations.....acre-feet...	1,005 5,922,639	292 999,858	286 994,871	18 53,434	58 140,591	48 348,471	29 319,338	19 29,133
18	Ground water.....organizations.....acre-feet...	19 47,652	8 15,655	8 15,655	...	1 250	2 74	...	2 74
19	From other organizations in the basin.....organizations receiving.....acre-feet...	41 261,813	3 5,225	3 5,225	...	2 4,475	...	...	...
20	Total leaving conveyance systems.....organizations.....acre-feet...	1,044 5,973,077	298 1,015,513	292 1,010,526	18 53,434	59 140,841	49 348,545	29 319,338	20 29,207
21	Conveyance loss in basin.....organizations.....acre-feet...	979 1,484,101	263 293,792	258 293,265	17 9,431	58 21,109	35 154,626	22 145,297	13 9,329
22	Conveyed to another drainage basin.....organizations.....acre-feet...	1 100,000	...	...	...	...	...	...	...
23	To drainage basin number.....D. B. No....	...	...	...	...	...	...	...	...
24	Delivered for use in the basin.....organizations.....acre-feet...	1,041 4,388,976	298 721,721	292 717,261	18 44,003	59 119,732	49 193,919	29 174,041	20 19,878
25	To farm irrigation water users.....organizations.....acre-feet...	1,041 4,333,721	298 710,839	292 706,379	18 43,903	59 119,600	49 183,275	29 163,919	20 19,396
26	To residential water users.....organizations.....acre-feet...	30 42,141	9 10,880	9 10,880	1 98	1 132	6 10,644	3 10,122	3 522
27	For other use.....organizations.....acre-feet...	9 13,114	1 2	1 2	1 2	...	...	...	...
28	Delivered to other irrigation organizations.....organizations delivering.....acre-feet...	26 261,813	3 5,225	3 5,225	...	2 4,475	...	...	...
29	Average delivery of irrigation water per acre irrigated as reported by organizations.....acre-feet...	3.2	2.8	2.8	2.5	4.5	1.7	1.7	1.5
	NEW CAPITAL INVESTMENT, 1950-1959								
30	Expenditures for additional new works and equipment for irrigation and drainage, Jan. 1, 1950-Dec. 31, 1959.....organizations.....dollars...	514 24,240,701	133 2,216,496	131 2,208,954	9 71,660	33 62,502	15 1,503,821	9 1,173,200	6 330,621

¹Water was transferred to the basin and released to natural stream channels in excess of the quantity of surface water withdrawn by irrigation organizations. The net effect was to increase the available surface water supply in the basin or State.

BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950

Columbia River above Snake River excluding Yakima River (1-C)—Continued			Missouri River below Three Forks (excluding Platte and Yellowstone Rivers), and Hudson Bay (Red River of the North) (VI-C and VII)										
Clark Fork—Continued			Mississippi River, Total and Hudson Bay	Missouri River direct					Belle Fourche River	Milk River			
Bitter-root River	Blackfoot River	Kootenai River		Total	Total	Below Fort Peck Dam	Fort Peck to Holter Dam	Holter Dam to Three Forks		Total	Milk River direct below Havre	Milk River direct above Havre	Upper Beaver Creek
(8f)	(8g)	(9)			(1a)	(1b)	(1c)	(2b)		(6a)	(6b)	(6c)	
108,000	32,000	4,000	1,507,000	539,000	116,000	26,000	28,000	62,000	...	132,000	124,000	8,000	...
109,260	31,761	3,877	1,457,534	506,661	99,062	19,130	23,293	56,639	...	112,162	105,028	6,323	811
156	11	6	751	153	53	3	8	42	...	27	23	4	...
233	14	11	837	172	69	4	7	58	...	22	18	4	1
106,554	9,397	2,632	1,326,879	517,598	87,485	13,501	16,806	57,178	...	146,848	143,373	3,475	...
92,448	8,612	1,990	1,080,619	368,733	56,534	10,515	5,830	40,189	...	107,080	105,375	1,705	...
1,782	41	61	10,523	3,194	527	116	39	372	...	866	847	19	...
1,780	41	61	9,543	3,151	522	116	39	367	...	865	846	19	...
2	...	...	969	36	1	...	...	1	...	...	...	...	...
...	...	...	11	7	4	...	...	4	...	1	1	...	...
2,000	2,000	...	20,000	6,000	4,000	...	...	4,000	...	1,000	1,000	...	...
106,000	30,000	4,000	1,487,000	533,000	112,000	26,000	28,000	58,000	...	131,000	123,000	8,000	...
155	11	6	747	153	53	3	8	42	...	27	23	4	...
440,698	27,008	4,987	4,957,564	1,092,361	234,912	19,575	30,381	184,956	...	287,464	277,439	10,025	...
...	...	...	3	...	...	...	...	...	...	1	...	1	...
...	...	...	2,786	...	...	...	...	...	...	219,366	...	219,366	...
...	...	...	...	...	...	...	...	...	...	VII	...	VII	...
155	11	6	719	150	52	3	8	41	...	27	23	4	...
440,698	27,008	4,987	4,954,778	1,092,361	234,912	19,575	30,381	184,956	...	68,098	277,439	1-209,341	...
151	11	6	713	148	50	3	8	39	...	27	23	4	...
425,367	27,008	4,987	4,922,781	1,078,563	221,114	19,575	30,381	171,158	...	68,098	277,439	1-209,341	...
5	...	...	11	3	3	...	...	3	...	...	...	...	...
15,331	...	...	31,997	13,798	13,798	...	...	13,798	...	...	...	...	...
1	...	...	38	7	4	...	...	4	...	...	...	...	...
750	...	...	256,588	62,568	32,018	...	...	32,018	...	...	...	...	...
155	11	6	747	153	53	3	8	42	...	27	23	4	...
440,698	27,008	4,987	4,957,564	1,092,361	234,912	19,575	30,381	184,956	...	287,464	277,439	10,025	...
138	10	5	716	143	45	3	8	34	...	26	23	3	...
103,929	4,170	527	1,190,309	286,715	44,874	7,184	4,917	32,773	...	80,953	78,313	2,640	...
...	...	...	1	...	...	...	...	...	...	...	...	...	...
...	...	...	100,000	...	...	...	...	...	...	...	...	...	...
...
155	11	6	743	151	52	3	8	41	...	26	23	3	...
336,769	22,838	4,460	3,667,255	805,646	190,038	12,391	25,464	152,183	...	206,511	199,126	7,385	...
155	11	6	743	151	52	3	8	41	...	26	23	3	...
336,763	22,838	4,460	3,622,882	787,010	183,424	12,391	25,464	145,569	...	196,781	189,396	7,385	...
1	...	...	21	4	2	...	...	2	...	...	...	...	...
6	...	...	31,261	6,534	6,297	...	...	6,297	...	...	...	...	...
...	...	...	8	6	3	...	...	3	...	1	1	...	...
...	...	...	13,112	12,102	317	...	...	317	...	9,730	9,730	...	...
1	...	...	23	5	2	...	...	2	...	...	...	...	...
750	...	...	256,588	62,568	32,018	...	...	32,018	...	...	...	...	...
3.6	2.7	2.2	3.4	2.1	3.2	1.2	4.4	3.7	...	1.8	1.8	4.3	...
71	3	2	381	78	40	3	5	32	...	10	8	2	...
562,341	8,630	7,542	22,024,205	19,646,843	17,973,149	355,749	13,700	17,603,700	...	1,312,899	1,306,399	6,500	...

IRRIGATION OF AGRICULTURAL LANDS

State Table 1.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS.

Item (For definitions and explanations, see text)	Missouri River below Three Forks (excluding Platte and Yellowstone Rivers), and Hudson Bay (Red River of the North) (VI-C and VII)—Continued								
	Mississippi River			Judith River and Smith River (8, 11)	Marias River			Sun River (10)	Hudson Bay (Red River of the North) (VII)
	Total	Mississippi River direct	Box Elder and Flatwillow Creeks		Total	Marias River direct	Teton River		
	(7a)	(7b)	(8, 11)		(9a)	(9b)	(10)	(VII)	
1 Total acres irrigated in Census year.....1959...	80,000	62,000	18,000	39,000	80,000	39,000	41,000	91,000	1,000
2 .....1949...	61,953	48,562	13,391	33,412	94,007	62,748	31,259	106,065	NA
3 Irrigation organizations.....organizations 1959...	26	19	7	13	18	11	7	17	1
4 .....1949...	37	24	14	16	15	8	8	14	NA
5 Service area, 1959:									
6 Farm area reported served by organizations.....acres 1959...	26,450	16,880	9,570	19,730	122,289	84,452	37,837	114,796	...
7 Farm area reported irrigated by organizations.....acres 1959...	24,745	15,705	9,040	9,059	64,307	37,470	26,837	107,008	...
8 Water users served, total.....water users 1959...	188	152	36	84	736	601	135	793	...
9 Farm irrigation water users.....water users 1959...	178	142	36	84	734	599	135	768	...
10 Residential water users.....water users 1959...	10	10	...	...	...	...	...	25	...
11 Other water users.....water users 1959...	...	...	...	...	2	2	...	...	...
12 LAND IRRIGATED BY SOURCE OF WATER, 1959									
13 Ground water sources.....acres...	1,000	1,000	...	...	...	...	...	...	...
14 Surface water sources.....acres...	79,000	61,000	18,000	39,000	80,000	39,000	41,000	91,000	1,000
15 WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959									
16 Total entering conveyance systems in basin.....organizations...	26	19	7	13	18	11	7	17	1
17 .....acre-feet...	76,399	55,805	20,594	18,352	195,977	99,410	98,967	(D)	(D)
18 From another drainage basin.....organizations...	...	...	...	...	...	1	...	...	...
19 .....acre-feet...	...	...	...	...	...	2,400	...	...	...
20 From drainage basin number.....D. B. No....	...	...	...	...	...	VI-C-9b	...	...	...
21 From natural sources within basin.....organizations...	26	19	7	12	17	11	6	17	1
22 .....acre-feet...	76,399	55,805	20,594	18,352	195,977	97,010	98,967	(D)	(D)
23 Surface water.....organizations...	26	19	7	12	17	11	6	17	1
24 .....acre-feet...	76,399	55,805	20,594	18,352	195,977	97,010	98,967	(D)	(D)
25 Ground water.....organizations...	...	...	...	...	...	...	...	...	...
26 .....acre-feet...	...	...	...	...	...	...	...	...	...
27 From other organizations in the basin.....organizations receiving...	...	...	...	2	1	...	1	...	...
28 .....acre-feet...	...	...	...	2,050	28,500	...	28,500	...	...
29 Total leaving conveyance systems.....organizations...	26	19	7	13	18	11	7	17	1
30 .....acre-feet...	76,399	55,805	20,594	18,352	195,977	99,410	98,967	(D)	(D)
31 Conveyance loss in basin.....organizations...	25	18	7	13	18	11	7	17	...
32 .....acre-feet...	22,422	14,885	7,537	2,931	48,949	18,481	30,468	86,586	...
33 Conveyed to another drainage basin.....organizations...	...	...	...	...	...	...	1	...	1
34 .....acre-feet...	...	...	...	...	...	...	2,400	...	(D)
35 To drainage basin number.....D. B. No....	...	...	...	...	...	...	N. Dak. VI-C-9a	...	Montana VI-C-6b
36 Delivered for use in the basin.....organizations...	26	19	7	13	18	11	7	17	...
37 .....acre-feet...	53,977	40,920	13,057	15,421	147,028	80,929	66,099	(D)	...
38 To farm irrigation water users.....organizations...	26	19	7	13	18	11	7	17	...
39 .....acre-feet...	53,895	40,838	13,057	15,421	144,973	78,874	66,099	(D)	...
40 To residential water users.....organizations...	1	1	...	...	...	...	...	1	...
41 .....acre-feet...	82	82	...	...	...	...	...	155	...
42 For other use.....organizations...	...	...	...	...	2	2	...	...	...
43 .....acre-feet...	...	...	...	...	2,055	2,055	...	...	...
44 Delivered to other irrigation organizations.....organizations delivering...	...	...	...	2	1	...	1	...	...
45 .....acre-feet...	...	...	...	2,050	28,500	...	28,500	...	...
46 Average delivery of irrigation water per acre irrigated as reported by organizations.....acre-feet...	2.2	2.6	1.4	1.7	2.3	2.1	2.5	1.8	...
47 NEW CAPITAL INVESTMENT, 1950-1959									
48 Expenditures for additional new works and equipment for irrigation and drainage, Jan. 1, 1950-Dec. 31, 1959.....organizations...	3	8	...	4	9	5	4	8	...
49 .....dollars...	18,050	18,050	...	13,080	101,560	22,060	79,500	228,105	...

13,114 acre-feet from D. B. No. VI-F-4a, 35,040 acre-feet from D. B. No. VI-F-6.

22,290 acre-feet from D. B. No. Wyoming VI-F-4a, 6,638 acre-feet from D. B. No. VI-F-1e.

36,638 acre-feet to D. B. No. VI-F-4a, 75,592 acre-feet to D. B. No. VI-F-1b.

BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Continued

Yellowstone River excluding Big Horn River (VI-F)													
Total	Yellowstone River direct					Powder River	Tongue River	Clarks Fork			Stillwater River		
	Total	Below Miles City	Miles City to Billings	Billings to Livingston	Above Livingston			Total	Clarks Fork direct	Red Lodge Creek	Total	Stillwater River direct	
													(1a)	(1b)	(1c)	(1d)	(2a)	(3a)	(4a)	(4b)	(5a)
438,000	281,000	69,000	97,000	85,000	30,000	8,000	17,000	78,000	40,000	38,000	21,000	10,000	
423,505	265,737	66,866	85,626	90,141	23,104	7,031	12,725	82,538	47,632	34,906	19,780	9,297	
283	119	8	18	66	27	...	4	79	38	41	49	21	
308	110	8	17	64	23	...	5	86	41	46	51	22	
432,147	286,721	77,269	92,609	90,763	26,080	...	1,988	86,232	54,787	31,445	23,910	9,543	
388,784	255,799	72,281	76,242	81,751	25,525	...	1,953	83,225	53,957	29,268	22,959	9,193	
4,877	3,606	711	1,494	1,151	250	...	34	803	557	246	296	141	
3,958	2,808	707	856	997	248	...	22	733	491	262	257	102	
915	794	3	638	153	...	...	12	70	66	4	39	39
4	4	1	...	1	2	...	...	...	...	...	...	...
4,000	1,000	...	1,000	...	...	...	2,000	1,000	1,000	...	...	...
434,000	280,000	69,000	96,000	85,000	30,000	8,000	15,000	77,000	39,000	38,000	21,000	10,000	
281	119	8	18	66	27	...	3	78	38	40	49	21	
2,021,143	1,448,737	391,008	314,744	637,732	180,845	...	70,136	372,303	258,085	114,218	92,091	40,479	
2	5	1	1	4	...	...	1	3	3	...	...	...
2,570	102,699	64,545	75,592	38,154	...	...	280	8,928	8,928	...	...	...
...	...	VI-F-3a	VI-F-1c	(1)	...	...	Wyoming VI-F-3a	...	(2)	...	...	...
270	108	8	16	58	26	...	2	76	36	40	49	21	
2,018,573	1,346,038	326,463	239,152	599,578	180,845	...	69,856	363,375	249,157	114,218	92,091	40,479	
269	107	8	16	57	26	...	2	76	36	40	49	21	
2,017,461	1,345,526	326,463	239,152	599,066	180,845	...	69,856	362,775	249,157	113,618	92,091	40,479	
3	1	...	...	1	...	...	...	2	...	2	...	...
1,112	512	...	...	512	...	...	...	600	...	600	...	...
12	11	...	3	6	2	...	...	1	1	...	...	...
98,067	93,267	...	11,542	53,225	28,500	...	...	4,800	4,800	...	...	...
281	119	8	18	66	27	...	3	78	38	40	49	21	
2,021,143	1,448,737	391,008	314,744	637,732	180,845	...	70,136	372,303	258,085	114,218	92,091	40,479	
271	116	8	18	63	27	...	...	74	35	39	48	20
444,925	368,304	104,920	89,250	152,180	21,954	...	...	44,574	30,853	13,721	9,435	3,089
1	3	1	...	3	...	...	1	1	1	...	...	...
100,000	106,638	100,000	...	82,230	...	...	64,545	3,114	3,114	...	...	...
VI-F-1a	...	VI-F-1a	...	(3)	...	...	VI-F-1a	...	VI-F-1c	...	...	...
281	119	8	18	66	27	...	3	78	38	40	49	21	
1,476,218	973,795	186,088	225,494	403,322	158,891	...	5,591	324,615	224,118	100,497	82,656	37,390	
281	119	8	18	66	27	...	3	78	38	40	49	21	
1,456,121	954,655	185,067	214,796	395,901	158,891	...	5,507	324,462	223,968	100,494	81,936	36,670	
14	12	1	5	6	...	...	1	2	1	1	1	37
19,087	18,130	21	10,698	7,411	...	...	84	153	150	3	720	38
2	2	1	...	1	...	...	...	...	...	...	...	...
1,010	1,010	1,000	...	10	...	...	...	...	...	...	...	...
8	8	...	3	4	1	...	...	1	1	...	...	...
98,067	93,267	...	11,542	53,225	28,500	...	...	4,800	4,800	...	...	...
3.7	3.7	2.6	2.8	4.8	6.2	...	2.8	3.9	4.2	3.4	3.6	4.0	
174	75	8	7	37	23	...	1	47	26	21	22	9	
1,807,082	1,498,001	1,117,226	135,504	136,816	108,455	...	36,800	162,672	128,888	33,784	41,348	21,080	

State Table 1.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY DRAINAGE BASINS:
CENSUSES OF 1959 AND 1950—Continued

Item (For definitions and explanations, see text)		Yellowstone River excluding Big Horn River (VI-F)—Continued					Missouri River Headwaters above Three Forks (VI-R)			
		Stillwater River—Continued			Boulder River	Shields River	Big Horn River	Jefferson River		
		Rosebud Creek						Total	Jefferson River direct	
		Total	West Rosebud Creek (5b)	East Rosebud Creek and Butcher Creek (5c)						
				(6)	(7)	(VI-G)			(1a)	
1	Total acres irrigated in Census year.....1959...	11,000	7,000	4,000	7,000	26,000	55,000	475,000	379,000	38,000
2	.....1949...	10,483	5,000	5,483	9,086	26,608	55,333	472,035	370,805	31,489
3	Irrigation organizations.....organizations 1959...	28	12	16	4	36	10	303	197	52
4	.....1949...	29	15	15	19	42	9	350	239	58
	Service area, 1959:									
	Farm area reported served by organizations.....acres 1959...	14,367	3,087	11,280	1,648	31,648	64,157	312,977	163,553	42,853
6	Farm area reported irrigated by organizations.....acres 1959...	13,766	3,087	10,679	1,417	23,431	57,969	265,133	141,484	34,641
7	Water users served, total.....water users 1959...	155	44	111	19	119	594	1,858	1,005	315
8	Farm irrigation water users.....water users 1959...	155	44	111	19	119	594	1,840	1,001	315
9	Residential water users.....water users 1959...	...	...	...	...	...	...	18	4	...
10	Other water users.....water users 1959...	...	...	...	...	...	...	...	...	...
	LAND IRRIGATED BY SOURCE OF WATER, 1959									
11	Ground water sources.....acres...	...	...	...	...	...	...	10,000	9,000	...
12	Surface water sources.....acres...	11,000	7,000	4,000	7,000	26,000	55,000	465,000	370,000	38,000
	WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959									
13	Total entering conveyance systems in basin.....organizations...	28	12	16	4	36	10	303	196	51
14	.....acre-feet...	51,612	9,520	42,092	47,633	99,580	277,233	1,566,827	885,030	250,366
15	From another drainage basin.....organizations...	...	...	...	...	...	1	...	...	1
16	.....acre-feet...	...	...	...	...	...	216	...	...	1,500
17	From drainage basin number.....D. B. No....	...	...	...	...	...	Wyoming VI-G-1	...	...	VI-H-1c
18	From natural sources within basin.....organizations...	28	12	16	4	36	9	291	184	43
19	.....acre-feet...	51,612	9,520	42,092	47,633	99,580	277,017	1,566,827	885,030	248,866
20	Surface water.....organizations...	28	12	16	4	36	9	288	181	43
21	.....acre-feet...	51,612	9,520	42,092	47,633	99,580	277,017	1,549,740	867,943	248,866
22	Ground water.....organizations...	...	...	...	...	...	...	5	5	...
23	.....acre-feet...	...	...	...	...	...	...	17,087	17,087	...
24	From other organizations in the basin.....organizations receiving...	...	...	...	...	...	3	16	15	10
25	.....acre-feet...	...	...	...	...	...	6,250	89,703	86,895	28,990
26	Total leaving conveyance systems.....organizations...	28	12	16	4	36	10	303	196	51
27	.....acre-feet...	51,612	9,520	42,092	47,633	99,580	277,233	1,566,827	885,030	250,366
28	Conveyance loss in basin.....organizations...	28	12	16	4	36	9	293	186	47
29	.....acre-feet...	6,346	1,157	5,189	7,833	14,779	50,035	408,634	245,886	126,678
30	Conveyed to another drainage basin.....organizations...	...	...	...	3	...	...	...	...	...
31	.....acre-feet...	...	...	...	35,040	...	...	...	...	...
32	To drainage basin number.....D. B. No....	...	...	...	VI-F-1c	...	...	...	...	...
33	Delivered for use in the basin.....organizations...	28	12	16	4	36	10	301	193	48
34	.....acre-feet...	45,266	8,363	36,903	4,760	84,801	227,198	1,158,193	639,144	123,688
35	To farm irrigation water users.....organizations...	28	12	16	4	36	10	301	193	48
36	.....acre-feet...	45,266	8,363	36,903	4,760	84,801	227,198	1,152,553	639,124	123,688
37	To residential water users.....organizations...	...	...	...	...	...	...	3	1	...
38	.....acre-feet...	...	...	...	...	...	...	5,640	20	...
39	For other use.....organizations...	...	...	...	...	...	...	...	...	...
40	.....acre-feet...	...	...	...	...	...	...	...	...	...
41	Delivered to other irrigation organizations.....organizations delivering...	...	...	...	...	...	1	9	8	6
42	.....acre-feet...	...	...	...	...	...	6,250	89,703	86,895	28,990
43	Average delivery of irrigation water per acre irrigated as reported by organizations.....acre-feet...	3.3	2.7	3.5	3.4	3.6	4.2	4.3	4.5	3.6
	NEW CAPITAL INVESTMENT, 1950-1959									
44	Expenditures for additional new works and equipment for irrigation and drainage, Jan. 1, 1950-Dec. 31, 1959.....organizations...	13	5	8	2	32	5	124	81	18
45	.....dollars...	20,268	3,311	16,957	2,122	66,139	130,000	440,280	246,200	59,900

State Table 1.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY DRAINAGE BASINS:
CENSUSES OF 1959 AND 1950—Continued

Missouri River Headwaters above Three Forks (VI-H)—Continued								
Jefferson River—Continued								
Item (For definitions and explanations, see text)	Boulder River	Big Hole River	Beaverhead River				Madison River	Gallatin River
			Total	Beaverhead River direct	Ruby River	Red Rock Creek		
	(1b)	(1c)		(1d)	(1e)	(1f)	(2)	(3)
1 Total acres irrigated in Census year.....1959...	5,000	156,000	180,000	113,000	41,000	26,000	26,000	70,000
2 1949...	19,915	132,046	187,355	107,607	29,997	49,751	34,249	66,981
3 Irrigation organizations.....organizations 1959...	23	36	86	35	34	17	37	72
4 1949...	32	42	107	49	35	23	35	77
5 Service area, 1959: Farm area reported served by organizations.....acres 1959...	13,227	34,315	73,158	33,208	32,650	7,300	40,848	108,576
6 Farm area reported irrigated by organizations.....acres 1959...	6,902	29,737	70,204	31,929	31,310	6,965	29,689	93,960
7 Water users served, total.....water users 1959...	63	134	493	191	265	37	162	691
8 Farm irrigation water users.....water users 1959...	63	130	493	191	265	37	149	690
9 Residential water users.....water users 1959...	...	4	...	...	...	...	13	1
10 Other water users.....water users 1959...	...	...	...	...	...	...	...	...
LAND IRRIGATED BY SOURCE OF WATER, 1959								
11 Ground water sources.....acres...	...	1,000	8,000	7,000	1,000	...	...	1,000
12 Surface water sources.....acres...	5,000	155,000	172,000	106,000	40,000	26,000	26,000	69,000
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959								
13 Total entering conveyance systems in basin.....organizations...	23	36	86	35	34	17	37	71
14 acre-feet...	28,666	209,801	397,697	175,614	183,885	38,198	209,007	472,790
15 From another drainage basin.....organizations...	...	...	...	...	...	...	...	...
16 acre-feet...	...	...	...	...	...	...	...	...
17 From drainage basin number.....D. B. No. ....	...	...	...	...	...	...	...	...
18 From natural sources within basin.....organizations...	23	36	82	33	32	17	37	70
19 acre-feet...	28,666	209,801	397,697	175,614	183,885	38,198	209,007	472,790
20 Surface water.....organizations...	22	36	80	32	32	16	37	70
21 acre-feet...	27,541	209,801	381,735	162,874	183,885	34,976	209,007	472,790
22 Ground water.....organizations...	1	...	4	3	...	1	...	...
23 acre-feet...	1,125	...	15,962	12,740	...	3,222	...	...
24 From other organizations in the basin.....organizations receiving...	1	...	4	2	2	...	...	1
25 acre-feet...	750	...	57,155	755	56,400	...	...	2,808
26 Total leaving conveyance systems.....organizations...	23	36	86	35	34	17	37	71
27 acre-feet...	28,666	209,801	397,697	175,614	183,885	38,198	209,007	472,790
28 Conveyance loss in basin.....organizations...	23	35	81	32	32	17	36	71
29 acre-feet...	5,786	43,163	70,259	13,788	50,845	5,626	60,229	102,519
30 Conveyed to another drainage basin.....organizations...	...	...	1	...	1	...	...	...
31 acre-feet...	...	...	1,500	...	1,500	...	...	...
32 To drainage basin number.....D. B. No. ....	...	...	...	...	VI-H-1a	...	...	...
33 Delivered for use in the basin.....organizations...	23	36	86	35	34	17	37	71
34 acre-feet...	22,880	166,638	325,938	161,826	131,540	32,572	148,778	370,271
35 To farm irrigation water users.....organizations...	23	36	86	35	34	17	37	71
36 acre-feet...	22,880	166,618	325,938	161,826	131,540	32,572	148,076	365,353
37 To residential water users.....organizations...	...	1	...	...	...	...	1	...
38 acre-feet...	...	20	...	...	...	...	702	4,918
39 For other use.....organizations...	...	...	...	...	...	...	...	...
40 acre-feet...	...	...	...	...	...	...	...	...
41 Delivered to other irrigation organizations.....organizations delivering...	1	...	2	1	1	...	...	1
42 acre-feet...	750	...	57,155	755	56,400	...	...	2,808
43 Average delivery of irrigation water per acre irrigated as reported by organizations.....acre-feet...	3.3	5.6	4.6	5.1	4.2	4.7	5.0	3.9
NEW CAPITAL INVESTMENT, 1950-1959								
44 Expenditures for additional new works and equipment for irrigation and drainage, Jan. 1, 1950-Dec. 31, 1959.....organizations...	12	15	36	16	13	7	20	23
45 dollars...	6,560	84,340	95,400	73,425	14,575	7,400	133,775	60,305

State Table 2.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950

Item (For definitions and explanations, see text)	Montana, total	Columbia River above Snake River excluding Yakima River	Missouri River below Three Forks, Montana, excluding Flatte and Yellowstone River	Yellowstone River and Big Horn River	Missouri River Headwaters above Three Forks, Montana
		(I-C)	(VI-C)	(VI-F and VI-G)	(VI-H)
1 Irrigation organizations, total					
2 number.....organizations 1959...	1,050	299	153	293	305
1949...	1,234	397	172	317	350
3 Area irrigated as reported by					
4 organizations.....acres 1959...	1,347,197	266,578	368,733	446,753	265,133
1949...	1,149,358	236,168	324,622	381,052	207,516
5 Farm water users served directly...water users 1959...	14,773	5,230	3,151	4,552	1,840
6 Total water conveyed.....acre-feet 1959...	6,234,890	1,020,738	1,154,929	2,402,693	1,656,530
TYPE OF ORGANIZATION					
Mutual:					
7 Unincorporated.....organizations 1959...	787	252	90	185	260
1949...	994	343	124	214	313
9 Farm area irrigated directly.....acres 1959...	362,973	76,681	40,139	97,979	148,174
10 Farm water users served					
11 directly.....water users 1959...	3,227	1,114	304	757	1,012
1949...	1,778,459	342,648	118,666	447,390	869,755
12 Total water conveyed.....acre-feet 1959...					
Incorporated.....organizations 1959...	203	30	38	90	45
13 1949...	158	23	20	82	33
14 Farm area irrigated directly.....acres 1959...	491,189	41,860	127,646	204,724	116,959
15 Farm water users served					
16 directly.....water users 1959...	5,136	689	1,196	2,413	828
1949...	2,662,345	150,124	507,269	1,248,177	786,775
17 Total water conveyed.....acre-feet 1959...					
District.....organizations 1959...	35	12	9	14	...
18 1949...	39	20	9	11	...
19 Farm area irrigated directly.....acres 1959...	309,869	33,340	162,417	114,112	...
20 Farm water users served					
21 directly.....water users 1959...	3,662	1,359	1,227	1,076	...
1949...	1,065,931	147,520	372,073	566,338	...
22 Total water conveyed.....acre-feet 1959...					
U. S. Bureau of Reclamation; projects and stor-					
23 age systems operated by bureau...organizations 1959...	4	...	4	...	...
1949...	3	1	2	...	...
24 Farm area irrigated directly.....acres 1959...	6,887	...	6,887	...	...
25 Farm water users served					
26 directly.....water users 1959...	68	...	68	...	...
1949...	72,302	...	72,302	...	...
27 Total water conveyed.....acre-feet 1959...					
U. S. Bureau of Reclamation; operated					
28 by water users.....organizations 1959...	15	3	2	7	...
1949...	16	NA	NA	NA	NA
29 Farm area irrigated directly.....acres 1959...	238,790	20,700	138,269	79,821	...
30 Farm water users served					
31 directly.....water users 1959...	2,034	336	1,031	667	...
1949...	847,937	108,253	307,429	432,255	...
32 Total water conveyed.....acre-feet 1959...					
U. S. Bureau of Indian Affairs.....organizations 1959...	17	4	9	4	...
33 1949...	7	1	4	3	...
34 Farm area irrigated directly.....acres 1959...	157,791	(D)	(D)	29,938	...
35 Farm water users served					
36 directly.....water users 1959...	2,317	(D)	(D)	266	...
1949...	524,523	(D)	(D)	140,788	...
37 Total water conveyed.....acre-feet 1959...					
Commercial.....organizations 1959...	...	...	...	...	...
38 1949...	3	1	1	1	...
39 Farm area irrigated directly.....acres 1959...	...	...	...	...	...
40 Farm water users served					
41 directly.....water users 1959...	...	...	...	...	...
1949...	...	...	...	...	...
42 Total water conveyed.....acre-feet 1959...					
State.....organizations 1959...	4	1	3	...	...
43 1949...	29	7	12	6	4
44 Farm area irrigated directly.....acres 1959...	18,488	(D)	(D)	...	...
45 Farm water users served					
46 directly.....water users 1959...	373	(D)	(D)	...	...
1949...	81,330	(D)	(D)	...	...
47 Total water conveyed.....acre-feet 1959...					
City.....organizations 1959...	...	...	...	...	...
48 1949...	1	1	...	...	...
49 Farm area irrigated directly.....acres 1959...	...	...	...	...	...
50 Farm water users served					
51 directly.....water users 1959...	...	...	...	...	...
1949...	...	...	...	...	...
52 Total water conveyed.....acre-feet 1959...					

D Data not shown to avoid disclosure of information for individual organizations.
NA Not available.

State Table 2.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Continued

	Item (For definitions and explanations, see text)	Montana, total	Columbia River above Snake River excluding Yakima River	Missouri River below Three Forks, Montana, excluding Platte and Yellowstone River	Yellowstone River and Big Horn River	Missouri River Headwaters above Three Forks, Montana
			(I-C)	(VI-C)	(VI-F and VI-G)	(VI-H)
	TYPE OF SERVICE, 1959					
1	All water directly from surface and					
2	ground water sources.....organizations...	1,002	295	145	275	287
3	Total water conveyed.....acre-feet...	5,818,054	894,496	1,088,977	2,282,289	1,552,692
4	Water delivered.....acre-feet...	4,321,516	628,945	806,720	1,710,242	1,175,609
5	To farm and residential					
6	users only.....organizations...	979	294	140	266	279
7	acre-feet...	3,640,880	624,975	712,324	1,240,246	1,063,735
8	To farm and residential users and other					
9	irrigation organizations.....organizations...	23	1	5	9	8
10	Water to farm and residential					
11	users.....acre-feet...	427,198	3,620	31,828	365,679	26,071
12	Water to other irrigation					
13	organizations.....acre-feet...	253,438	750	62,568	104,317	85,803
14	To other irrigation organizations					
15	only.....organizations...	...	...	...	...	...
16	acre-feet...	...	...	...	...	...
17	Part of water from other					
18	organizations.....organizations...	19	3	4	6	6
19	Total water conveyed.....acre-feet...	182,975	126,242	5,264	31,262	19,807
20	From surface and ground water					
21	sources.....acre-feet...	154,807	121,017	3,784	14,135	14,135
22	From other irrigation					
23	organizations.....acre-feet...	27,768	5,225	1,480	15,391	5,672
24	Water delivered.....acre-feet...	142,374	97,999	4,875	24,053	15,447
25	To farm and residential					
26	users only.....organizations...	16	1	4	6	5
27	acre-feet...	109,052	71,877	4,875	24,053	8,247
28	To farm and residential users and other					
29	irrigation organizations.....organizations...	3	2	...	...	1
30	Water to farm and residential					
31	users.....acre-feet...	24,947	21,647	...	...	3,300
32	Water to other irrigation					
33	organizations.....acre-feet...	8,375	4,475	...	...	3,900
34	To other irrigation organizations					
35	only.....organizations...	...	...	...	...	...
36	acre-feet...	...	...	...	...	...
37	All of water from other					
38	organizations.....organizations...	23	...	3	10	10
39	Total water conveyed.....acre-feet...	234,261	...	61,088	89,142	84,031
40	Water delivered.....acre-feet...	173,785	...	44,517	72,428	56,840
41	To farm and residential					
42	users only.....organizations...	23	...	3	10	10
43	acre-feet...	173,785	...	44,517	72,428	56,840
44	To farm and residential users and other					
45	irrigation organizations.....organizations...	...	...	...	...	...
46	Water to farm residential					
47	users.....acre-feet...	...	...	...	...	...
48	Water to other irrigation					
49	organizations.....acre-feet...	...	...	...	...	...
50	To other irrigation organizations					
51	only.....organizations...	...	...	...	...	...
52	acre-feet...	...	...	...	...	...
53	No water conveyed.....organizations...	6	1	1	2	2
	WATER FROM OTHER SOURCES					
54	Organizations reporting NO water from					
55	other sources used on land served					
56	by the organization.....organizations...	808	223	128	268	189
57	acre served...	1,407,584	274,308	461,544	497,140	174,592
58	acres irrigated...	1,159,439	233,001	329,029	449,095	148,314
59	Water delivered to farms.....acre-feet...	3,537,172	597,029	680,382	1,616,026	643,735
60	acre-feet per acre...	3.1	2.6	2.1	3.6	4.3
61	Organizations reporting water from other					
62	sources used on land served by the					
63	organization.....organizations...	234	75	23	23	113
64	acre served...	265,041	41,781	56,054	28,821	138,385
65	acres irrigated...	215,633	33,577	39,704	25,533	116,819
66	Water delivered to farms.....acre-feet...	867,527	113,810	106,628	138,271	508,818
67	acre-feet per acre...	4.0	3.4	2.7	5.4	4.3

State Table 2.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Continued

Item (For definitions and explanations, see text)	Montana, total	Columbia River above Snake River excluding Yakima River	Missouri River below Three Forks, Montana, excluding Platte and Yellowstone River	Yellowstone River and Big Horn River	Missouri River Headwaters above Three Forks, Montana
		(I-C)	(VI-C)	(VI-F and VI-G)	(VI-H)
WATER DELIVERED PER ACRE					
Organizations reporting no water from other sources used on same land:					
0.1 to 0.9 acre-feet per acre.....organizations...	33	9	15	4	5
1.0 to 1.9 acre-feet per acre.....organizations...	45,349	3,133	27,244	9,210	5,762
2.0 to 2.9 acre-feet per acre.....organizations...	138	36	48	32	22
3.0 to 3.9 acre-feet per acre.....organizations...	323,156	108,799	175,740	26,587	12,030
4.0 to 4.9 acre-feet per acre.....organizations...	180	52	34	70	24
5.0 to 5.9 acre-feet per acre.....organizations...	351,052	39,338	75,763	201,311	34,640
6.0 to 6.9 acre-feet per acre.....organizations...	154	50	13	65	26
7.0 to 7.9 acre-feet per acre.....organizations...	169,165	31,165	25,076	88,939	23,985
8.0 to 8.9 acre-feet per acre.....organizations...	101	36	10	38	17
9.0 to 9.9 acre-feet per acre.....organizations...	96,559	31,491	12,795	37,809	14,864
10.0 to 10.9 acre-feet per acre.....organizations...	76	19	2	17	38
11.0 to 11.9 acre-feet per acre.....organizations...	56,390	6,254	4,288	14,841	31,007
12.0 to 12.9 acre-feet per acre.....organizations...	45	9	3	16	17
13.0 to 13.9 acre-feet per acre.....organizations...	55,231	7,129	3,005	36,140	8,997
14.0 to 14.9 acre-feet per acre.....organizations...	32	7	1	10	14
15.0 to 15.9 acre-feet per acre.....organizations...	18,899	4,637	1,568	7,014	5,680
16.0 to 16.9 acre-feet per acre.....organizations...	25	2	1	10	12
17.0 to 17.9 acre-feet per acre.....organizations...	31,538	305	900	23,409	6,924
18.0 to 18.9 acre-feet per acre.....organizations...	24	3	1	6	14
19.0 to 19.9 acre-feet per acre.....organizations...	11,700	750	2,650	3,835	4,465
SIZE OF ORGANIZATION					
Size of organization (number of farm irrigation water users served directly):					
None.....organizations...	9	1	2	2	4
1 to 3.....organizations...	519	161	73	101	184
4 to 9.....organizations...	1,216	370	173	242	431
10 to 29.....organizations...	303	86	38	112	67
30 to 99.....organizations...	1,664	483	203	616	362
100 to 299.....organizations...	132	28	16	46	42
300 to 999.....organizations...	2,065	417	273	742	633
1,000 or more.....organizations...	62	15	18	21	8
Size of organization (acre-feet of water delivered directly to farms):					
None.....organizations...	9	1	2	2	4
1 to 299 acre-feet.....organizations...	139	73	25	21	20
300 to 999 acre-feet.....organizations...	20,753	10,135	3,641	3,424	3,553
1,000 to 2,999 acre-feet.....organizations...	282	96	41	74	71
3,000 to 9,999 acre-feet.....organizations...	169,190	57,824	23,322	46,152	41,892
10,000 to 29,999 acre-feet.....organizations...	317	82	46	87	102
30,000 to 99,999 acre-feet.....organizations...	558,692	134,348	83,075	158,813	182,456
100,000 or more acre-feet.....organizations...	204	38	16	72	78
Size of organization (acre-feet of water conveyed):					
None.....organizations...	6	1	1	2	2
1 to 299 acre-feet.....organizations...	113	60	21	15	15
300 to 999 acre-feet.....organizations...	16,901	8,327	3,167	2,790	2,617
1,000 to 2,999 acre-feet.....organizations...	259	90	38	68	63
3,000 to 9,999 acre-feet.....organizations...	165,377	55,563	22,968	47,535	39,291
10,000 to 29,999 acre-feet.....organizations...	313	91	42	80	100
30,000 to 99,999 acre-feet.....organizations...	572,302	154,585	76,157	147,677	193,883
100,000 or more acre-feet.....organizations...	224	44	22	75	83
Size of organization (acre-feet of water conveyed):					
None.....organizations...	6	1	1	2	2
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100,000 or more acre-feet.....organizations...	224	44	22	75	83
Size of organization (acre-feet of water conveyed):					
None.....organizations...	6	1	1	2	2
1 to 299 acre-feet.....organizations...	113	60	2		

State Table 3.—LAND IRRIGATED BY SOURCE OF WATER, BY DRAINAGE BASINS: CENSUS OF 1959

	Item (For definitions and explanations, see text)	Montana, total	Columbia River above Snake River excluding Yakima River	Missouri River below Three Forks, Montana, excluding Platte and Yellow- stone River	Yellowstone and Big Horn Rivers	Missouri River Headwaters above Three Forks, Montana	Hudson Bay (Red River of the North)
1	Total acres irrigated.....farms reporting...	11,935	3,369	3,313	3,782	1,456	15
2	acres...	1,874,520	367,545	538,057	493,135	474,972	811
3	Acres irrigated by sprinklers.....farms reporting...	1,376	852	243	110	165	6
4	acres...	67,745	38,232	13,881	3,268	12,131	233
5	Sprinklers only.....farms reporting...	741	525	136	45	32	3
6	acres...	35,916	23,318	8,424	1,311	2,757	106
	LAND IRRIGATED, BY SOURCE OF WATER TO INDIVIDUAL FARMS, 1959						
7	Ground water sources on farm.....farms reporting...	537	276	111	80	69	1
8	acres...	30,791	11,349	6,505	3,972	8,885	80
9	Ground water sources on farm only.....farms reporting...	300	171	52	45	31	1
10	acres...	14,148	5,704	3,352	2,859	2,153	80
11	Surface sources on farm.....farms reporting...	4,771	1,515	1,441	929	872	14
12	acres...	909,901	184,716	242,994	124,403	357,057	731
13	Surface sources on farm only.....farms reporting...	4,055	1,261	1,251	796	733	14
14	acres...	795,571	155,893	212,076	109,052	317,819	731
15	Irrigation organization sources.....farms reporting...	7,452	1,883	1,973	2,926	670	...
16	acres...	933,828	171,480	288,558	364,760	109,030	...
17	Irrigation organization sources only.....farms reporting...	6,753	1,631	1,794	2,790	538	...
18	acres...	836,876	147,217	256,005	344,612	89,042	...
19	Both farm ground water sources and surface sources.....farms reporting...	126	53	36	15	22	...
20	acres...	38,567	9,608	5,700	1,508	21,751	...
21	Both irrigation organization and farm ground water or farm surface sources.....farms reporting...	701	253	180	136	132	...
22	acres...	189,358	49,123	60,924	35,104	44,207	...

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950

Item (For definitions and explanations, see text)	Montana, total						
	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users	
Irrigation organizations.....organizations 1959...	1,050	787	203	35	4	15	21
1949.....	1,234	994	158	39	3	16	40
Service area, 1959:							
Area served, as reported							
by organizations.....acres...	1,642,968	449,079	626,781	357,906	11,623	278,058	197,579
Area irrigated, as reported							
by organizations.....acres...	1,347,197	362,973	491,189	309,869	6,887	238,790	176,279
Water users served, 1959, total.....water users...	17,181	3,335	6,033	3,829	69	2,067	3,915
Farm irrigation water users.....water users...	14,773	3,227	5,126	3,662	68	2,034	2,690
Residential water users.....water users...	2,395	107	898	165	...	31	1,225
Other water users.....water users...	13	1	9	2	1	2	...
TYPE OF SERVICE, 1959							
All water directly from surface and ground							
water sources.....organizations...	1,002	771	176	32	2	13	21
Total water conveyed.....acre-feet...	5,818,054	1,733,082	2,466,905	970,506	41,714	749,042	605,853
Water delivered.....acre-feet...	4,321,516	1,401,863	1,885,675	588,212	38,091	409,344	407,675
To farm and residential users							
only.....organizations...	979	767	159	31	1	13	21
acre-feet...	3,640,880	1,383,288	1,281,436	560,978	7,503	409,344	407,675
To farm and residential users and other							
irrigation organizations.....organizations...	23	4	17	1	1	...	...
Water to farm and residential							
users.....acre-feet...	427,198	8,830	395,634	22,734	...	...	...
Water to other irrigation							
organizations.....acre-feet...	253,438	9,745	208,605	4,500	30,588	...	...
To other irrigation organizations							
only.....organizations...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
Part of water from other							
organizations.....organizations...	19	9	7	3	...	2	...
Total water conveyed.....acre-feet...	182,575	23,746	43,398	115,431	...	98,895	...
From surface and ground water							
sources.....acre-feet...	154,807	12,844	30,423	111,540	...	98,145	...
From other irrigation organizations.....acre-feet...	27,768	10,902	12,975	3,891	...	750	...
Water delivered.....acre-feet...	142,374	19,895	37,984	84,495	...	72,093	...
To farm and residential users							
only.....organizations...	16	9	4	3	...	2	...
acre-feet...	109,052	19,895	4,662	84,495	...	72,093	...
To farm and residential users and other							
irrigation organizations.....organizations...	3	...	3	...	...	...	...
Water to farm and residential							
users.....acre-feet...	24,947	...	24,947	...	...	...	...
Water to other irrigation							
organizations.....acre-feet...	8,375	...	8,375	...	...	...	...
To other irrigation organizations							
only.....organizations...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
All of water from other organizations.....organizations...	23	7	15	...	...	...	...
Total water conveyed.....acre-feet...	234,261	21,631	182,042	...	30,588	...	...
Water delivered.....acre-feet...	173,785	17,600	137,693	...	18,492	...	...
To farm and residential users							
only.....organizations...	23	7	15	...	...	...	...
acre-feet...	173,785	17,600	137,693	...	18,492	...	...
To farm and residential users and other							
irrigation organizations.....organizations...	...	...	...	...	...	...	...
Water to farm and residential							
users.....acre-feet...	...	...	...	...	...	...	...
Water to other irrigation							
organizations.....acre-feet...	...	...	...	...	...	...	...
To other irrigation organizations							
only.....organizations...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
No water conveyed.....organizations...	6	...	5	...	1	...	...
WATER FROM OTHER SOURCES							
Organizations reporting no water from other							
sources used on the land served by the							
organization.....organizations...	808	597	153	35	2	15	21
acres served...	1,407,584	332,718	478,931	386,733	11,623	306,885	197,579
acres irrigated...	1,159,439	268,442	370,797	337,034	6,887	265,955	176,279
water delivered to farms (acre-feet)...	3,537,172	1,041,351	1,343,576	728,662	25,995	550,110	397,588
acre-feet per acre...	3.1	3.9	3.6	2.2	3.8	2.0	2.2
Organizations reporting water from other							
sources used on land served by the							
organization.....organizations...	234	189	45	...	...	...	...
acres served...	265,041	116,711	148,330	...	...	...	...
acres irrigated...	215,633	94,761	120,872	...	...	...	...
water delivered to farms (acre-feet)...	867,527	386,684	480,843	...	...	...	...
acre-feet per acre...	4.0	4.1	4.0	...	...	...	...
NEW CAPITAL INVESTMENT, 1950-1959							
Expenditures for additional new works and							
equipment for irrigation and drainage,							
January 1, 1950-December 31, 1959.....organizations...	214	385	97	22	3	13	7
By U. S. B. R. ....dollars...	17,637,251	...	...	91,301	17,545,950	91,301	...
By water users organizations.....dollars...	6,603,450	735,193	1,290,604	2,654,517	...	2,518,609	1,923,136

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

Item (For definitions and explanations, see text)	Montana, total						
	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users	
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
Total entering conveyance systems.....organizations...	1,044	787	198	35	3	15	21
acre-feet...	5,973,077	1,745,926	2,497,328	1,082,256	41,714	847,187	605,853
From another drainage basin.....organizations...	3	1	1	1	...	1	...
From drainage basin.....D. B. No....	2,786	2,290	280	216	...	216	...
From sources within basin.....organizations...	1,017	778	182	34	2	14	21
Surface water.....acre-feet...	5,970,251	1,743,636	2,497,048	1,082,040	41,714	846,971	605,853
Ground water.....organizations...	1,005	768	181	33	2	14	21
acre-feet...	5,922,639	1,717,784	2,475,848	1,081,440	41,714	846,971	605,853
From other organizations in the basin.....organizations receiving...	19	15	3	1	...	...	...
acre-feet...	47,652	25,852	21,200	600	...	...	...
Total leaving conveyance systems.....organizations...	41	16	22	2	1	1	...
acre-feet...	261,813	32,533	195,017	3,675	30,588	750	...
Conveyance loss in basin.....organizations...	1,044	787	198	35	3	15	21
acre-feet...	5,973,077	1,768,714	2,475,365	1,081,431	41,714	748,153	605,853
Conveyed to another drainage basin.....organizations...	979	737	187	33	2	14	20
To drainage basin number.....D. B. No....	1,484,101	339,091	628,659	302,404	15,679	255,770	198,178
Delivered for use in the basin.....organizations...	1	...	...	1	...	...	...
acre-feet...	100,000	...	...	100,000	...	...	...
To farm irrigation water users.....organizations...	1,041	786	197	35	2	15	21
acre-feet...	4,388,976	1,429,623	1,846,706	678,937	26,035	492,167	407,675
To domestic water users.....organizations...	1,041	786	197	35	2	15	21
acre-feet...	4,333,721	1,427,345	1,823,459	659,334	25,995	480,782	397,588
For other use.....organizations...	30	13	3	3	...	2	1
acre-feet...	42,141	2,268	20,913	8,873	...	655	10,087
Delivered to other irrigation organizations.....organizations delivering...	9	1	5	2	1	2	...
acre-feet...	13,114	10	2,334	10,730	40	10,730	...
SIZE OF ORGANIZATION, 1959							
Size of organization (number of farm irrigation water users):							
None.....organizations...	11	3	6	...	2	...	...
1 to 3 water users.....organizations...	519	495	21	...	...	...	3
4 to 9 water users.....organizations...	303	241	54	4	...	...	4
10 to 29 water users.....organizations...	130	44	76	7	1	3	2
30 to 99 water users.....organizations...	62	4	38	14	1	1	5
100 to 299 water users.....organizations...	19	...	7	3	...	2	...
300 to 999 water users.....organizations...	5	...	1	3	...	1	...
1,000 or more water users.....organizations...	1	...	...	...	...	...	1
Size of organization (acre-feet of water delivered directly to farms):							
None.....organizations...	9	1	6	...	2	...	...
1 to 299 acre-feet.....organizations...	139	132	6	...	...	...	1
300 to 999 acre-feet.....organizations...	282	256	19	4	...	2	3
1,000 to 2,999 acre-feet.....organizations...	317	267	42	2	...	...	6
3,000 to 9,999 acre-feet.....organizations...	204	115	73	13	1	4	2
10,000 to 29,999 acre-feet.....organizations...	78	16	48	8	1	1	5
30,000 to 99,999 acre-feet.....organizations...	17	...	6	6	...	6	3
100,000 or more acre-feet.....organizations...	4	...	1	2	...	2	1
Size of organization (acre-feet of water conveyed):							
None.....organizations...	6	...	5	...	1	1	...
1 to 299 acre-feet.....organizations...	113	108	4	...	...	...	1
300 to 999 acre-feet.....organizations...	259	241	12	3	...	1	3
1,000 to 2,999 acre-feet.....organizations...	313	268	39	2	...	1	4
3,000 to 9,999 acre-feet.....organizations...	224	142	69	10	...	2	3
10,000 to 29,999 acre-feet.....organizations...	98	28	53	11	1	3	5
30,000 to 99,999 acre-feet.....organizations...	31	...	20	6	2	4	3
100,000 or more acre-feet.....organizations...	6	...	1	3	...	3	2

Item (For definitions and explanations, see text)	Columbia River above Snake River excluding Yakima River (I-C)							
	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other	
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users		
Irrigation organizations.....organizations 1959...	299	252	30	12	...	3	5	
Service area, 1959: 1949...	397	343	23	20	1	NA	10	
Area served, as reported by organizations.....acres...	316,089	91,883	63,667	38,210	...	22,390	122,329	
Area irrigated, as reported by organizations.....acres...	266,578	76,681	41,860	33,340	...	20,700	114,697	
Water users served, 1959, total.....water users...	6,658	1,139	866	1,360	...	337	3,293	
Farm irrigation water users.....water users...	5,230	1,114	689	1,359	...	336	2,068	
Residential water users.....water users...	1,426	25	175	1	...	1	1,225	
Other water users.....water users...	2	...	2	...	...	...	...
TYPE OF SERVICE, 1959								
All water directly from surface and ground water sources.....organizations...	295	252	27	11	...	2	5	
Total water conveyed.....acre-feet...	894,496	342,648	122,561	48,841	...	9,574	380,444	
Water delivered.....acre-feet...	628,945	272,618	104,018	37,408	...	8,617	214,901	
To farm and residential users only.....organizations...	294	251	27	11	...	2	5	
To farm and residential users and other irrigation organizations.....acre-feet...	624,575	268,248	104,018	37,408	...	8,617	214,901	
Water to farm and residential users.....acre-feet...	3,620	3,620	...	...	...	...	...
Water to other irrigation organizations.....acre-feet...	750	750	...	...	...	...	...
To other irrigation organizations only.....organizations...	...	...	...	...	...	...	...
Part of water from other organizations.....organizations...	3	...	2	...	...	1	...
Total water conveyed.....acre-feet...	126,242	...	27,363	98,679	...	98,679	...	
From surface and ground water sources.....acre-feet...	121,017	...	23,088	97,929	...	97,929	...	
From other irrigation organizations.....acre-feet...	5,225	...	4,475	...	...	...	...
Water delivered.....acre-feet...	97,999	...	26,122	71,877	...	71,877	...	
To farm and residential users only.....organizations...	1	...	...	1	...	1	...
To farm and residential users and other irrigation organizations.....acre-feet...	71,877	...	...	71,877	...	71,877	...
Water to farm and residential users.....acre-feet...	21,647	...	21,647	...	...	...	...
Water to other irrigation organizations.....acre-feet...	4,475	...	4,475	...	...	...	...
To other irrigation organizations only.....organizations...	...	...	...	...	...	...	...
All of water from other organizations.....organizations...	...	...	...	...	...	...	...
Total water conveyed.....acre-feet...	...	...	...	...	...	...	...
Water delivered.....acre-feet...	...	...	...	...	...	...	...
To farm and residential users only.....organizations...	...	...	...	...	...	...	...
To farm and residential users and other irrigation organizations.....organizations...	...	...	...	...	...	...	...
Water to farm and residential users.....acre-feet...	...	...	...	...	...	...	...
Water to other irrigation organizations.....acre-feet...	...	...	...	...	...	...	...
To other irrigation organizations only.....organizations...	...	...	...	...	...	...	...
No water conveyed.....organizations...	1	...	1	...	...	...	...
WATER FROM OTHER SOURCES								
Organizations reporting on water from other sources used on the land served by the organization.....organizations...	223	187	19	12	...	3	5	
acres served.....acres irrigated...	274,308	64,935	48,834	38,210	...	22,390	122,329	
water delivered to farms (acre-feet).....acre-feet per acre...	233,001	55,672	29,292	33,340	...	20,700	114,697	
...	597,029	204,542	78,588	109,285	...	80,484	204,814	
...	2.6	3.7	2.7	3.3	...	3.3	1.8	
Organizations reporting water from other sources used on land served by the organization.....organizations...	75	65	10	...	...	...	...
acres served.....acres irrigated...	41,781	26,948	14,833	...	...	...	...
water delivered to farms (acre-feet).....acre-feet per acre...	33,577	21,009	12,568	...	...	...	...
...	113,810	66,763	47,047	...	...	...	...
...	3.4	3.2	3.7	...	...	...	...
NEW CAPITAL INVESTMENT, 1950-1959								
Expenditures for additional new works and equipment for irrigation and drainage, January 1, 1950-December 31, 1959.....organizations...	133	107	15	8	...	3	1	
By U. S. B. R.....dollars...	1,680	...	...	1,680	...	1,680	...
By water users organizations.....dollars...	2,214,816	162,659	158,292	401,978	...	341,770	1,491,887	

See footnote at end of table.

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

Columbia River above Snake River excluding Yakima River (I-C)							
Item (For definitions and explanations, see text)	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users	
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1999							
Total entering conveyance systems.....	296 1,015,513	252 342,648	29 145,649	12 146,770	...	3 107,503	...
From another drainage basin.....	...	...	...	...	...	...	...
From drainage basin.....	...	...	...	...	...	...	...
From sources within basin.....	298 1,015,513	252 342,648	29 145,649	12 146,770	...	3 107,503	...
Surface water.....	292 999,839	248 339,343	28 133,899	11 146,170	...	3 107,503	...
Ground water.....	8 15,655	5 3,305	2 11,790	1 600	...	...	...
From other organizations in the basin.....	3 5,225	...	2 4,475	1 750	...	1 750	...
Total leaving conveyance systems.....	298 1,015,513	252 341,898	29 145,649	12 147,520	...	3 108,253	...
Conveyance loss in basin.....	263 293,792	221 70,030	26 19,982	11 38,235	...	3 27,759	...
Conveyed to another drainage basin.....	...	...	...	...	...	...	...
To drainage basin number.....	...	...	...	...	...	...	...
Delivered for use in the basin.....	298 721,721	252 271,868	29 125,667	12 109,285	...	3 80,494	...
To farm irrigation water users.....	298 710,839	252 271,305	29 125,435	12 109,285	...	3 80,494	...
To domestic water users.....	...	...	...	...	...	...	...
For other use.....	10,880 1 2	563 1 ...	230 2 2	...	...	...	...
Delivered to other irrigation organizations.....	3 5,225	1 750	2 4,475	...	...	...	...
SIZE OF ORGANIZATION, 1999							
Size of organization (number of farm irrigation water users):							
None.....	1	...	1	...	...	...	...
1 to 3 water users.....	161	157	4	...	...	...	...
4 to 9 water users.....	86	75	8	3	...	1	...
10 to 29 water users.....	28	17	11	...	...	...	...
30 to 99 water users.....	15	3	...	...	...	...	...
100 to 299 water users.....	5	...	1	...	...	1	...
300 to 999 water users.....	2	...	1	...	...	...	...
1,000 or more water users.....	1	...	...	...	...	...	...
Size of organization (acre-feet of water delivered directly to farms):							
None.....	1	...	1	...	...	...	...
1 to 299 acre-feet.....	73	71	2	...	...	...	...
300 to 999 acre-feet.....	96	90	3	3	...	1	...
1,000 to 2,999 acre-feet.....	82	71	9	2	...	...	...
3,000 to 9,999 acre-feet.....	38	19	6	...	...	...	...
10,000 to 29,999 acre-feet.....	5	...	2	...	...	1	...
30,000 to 99,999 acre-feet.....	4	...	...	1	...	1	...
100,000 or more acre-feet.....	...	...	...	...	...	...	...
Size of organization (acre-feet of water conveyed):							
None.....	1	...	1	...	...	...	...
1 to 299 acre-feet.....	60	59	1	...	...	...	...
300 to 999 acre-feet.....	90	84	3	3	...	1	...
1,000 to 2,999 acre-feet.....	91	81	9	1	...	...	...
3,000 to 9,999 acre-feet.....	44	26	7	...	...	...	...
10,000 to 29,999 acre-feet.....	8	3	4	...	...	...	...
30,000 to 99,999 acre-feet.....	4	...	...	1	...	1	...
100,000 or more acre-feet.....	1	...	...	...	...	...	...

NA Not available.

IRRIGATION OF AGRICULTURAL LANDS

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

Item (For definitions and explanations, see text)	Missouri River below Three Forks, Montana, (excluding Platte and Yellowstone Rivers), and Hudson Bay (Red River of the North) (VI-C and VII)							
	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other	
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users		
Irrigation organizations.....organizations 1959...	153	90	38	9	4	5	12	
1949.....	172	124	20	9	2	NA	17	
Service area, 1959:								
Area served, as reported								
by organizations.....acres.....	517,598	67,344	205,641	194,257	11,623	166,772	38,733	
Area irrigated, as reported								
by organizations.....acres.....	368,733	40,139	127,646	162,417	6,887	138,269	31,644	
Water users served, 1959, total.....water users.....	3,194	314	1,227	1,228	69	1,057	356	
Farm irrigation water users.....water users.....	3,151	304	1,196	1,227	68	1,031	356	
Residential water users.....water users.....	36	10	26	...	...	25	...
Other water users.....water users.....	7	...	5	1	1	1	...	
TYPE OF SERVICE, 1959								
All water directly from surface and ground								
water sources.....organizations.....	145	86	36	9	2	5	12	
Total water conveyed.....acre-feet.....	1,088,577	113,402	476,769	372,073	41,714	307,429	84,619	
Water delivered.....acre-feet.....	806,720	93,410	373,954	237,579	38,091	196,439	63,686	
To farm and residential users								
only.....organizations.....	140	85	33	9	1	5	12	
acre-feet.....	712,324	92,685	310,871	237,579	7,503	196,439	63,686	
To farm and residential users and other								
irrigation organizations.....organizations.....	5	1	3	...	1	...	...
Water to farm and residential								
users.....acre-feet.....	31,828	675	31,153	...	...	...	...
Water to other irrigation								
organizations.....acre-feet.....	62,568	50	31,930	...	30,588	...	...
To other irrigation organizations								
only.....organizations.....	...	...	...	...	...	...	...
acre-feet.....	...	...	...	...	...	...	...
Part of water from other								
organizations.....organizations.....	4	4	...	...	...	...	...
Total water conveyed.....acre-feet.....	5,264	5,264	...	...	...	...	...
From surface and ground water								
sources.....acre-feet.....	3,784	3,784	...	...	...	...	...
From other irrigation organizations.....acre-feet.....	1,480	1,480	...	...	...	...	...
Water delivered.....acre-feet.....	4,875	4,875	...	...	...	...	...
To farm and residential users								
only.....organizations.....	4	4	...	...	...	...	...
acre-feet.....	4,875	4,875	...	...	...	...	...
To farm and residential users and other								
irrigation organizations.....organizations.....	...	...	...	...	...	...	...
Water to farm and residential								
users.....acre-feet.....	...	...	...	...	...	...	...
Water to other irrigation								
organizations.....acre-feet.....	...	...	...	...	...	...	...
To other irrigation organizations								
only.....organizations.....	...	...	...	...	...	...	...
acre-feet.....	...	...	...	...	...	...	...
All of water from other organizations.....organizations.....	3	...	2	...	1	...	...
Total water conveyed.....acre-feet.....	61,088	...	30,500	...	30,588	...	...
Water delivered.....acre-feet.....	44,517	...	26,025	...	18,492	...	...
To farm and residential users								
only.....organizations.....	3	...	2	...	1	...	...
acre-feet.....	44,517	...	26,025	...	18,492	...	...
To farm and residential users and other								
irrigation organizations.....organizations.....	...	...	...	...	...	...	...
Water to farm and residential								
users.....acre-feet.....	...	...	...	...	...	...	...
Water to other irrigation								
organizations.....acre-feet.....	...	...	...	...	...	...	...
To other irrigation organizations								
only.....organizations.....	...	...	...	...	...	...	...
acre-feet.....	...	...	...	...	...	...	...
No water conveyed.....organizations.....	1	...	...	...	1	...	...
WATER FROM OTHER SOURCES								
Organizations reporting no water from other								
sources used on the land served by the								
organization.....organizations.....	128	76	29	9	2	5	12	
acres served.....	461,544	59,139	157,792	194,257	11,623	166,772	38,733	
acres irrigated.....	329,029	34,609	93,472	162,417	6,887	138,269	31,644	
water delivered to farms (acre-feet).....	680,382	79,679	273,443	237,579	25,995	196,284	63,686	
acre-feet per acre.....	2.1	2.3	2.9	1.5	3.8	1.4	2.0	
Organizations reporting water from other								
sources used on land served by the								
organization.....organizations.....	23	34	9	...	...	...	...
acres served.....	56,054	8,205	47,849	...	...	...	...
acres irrigated.....	39,704	5,530	34,174	...	...	...	...
water delivered to farms (acre-feet).....	106,628	18,307	88,321	...	...	...	...
acre-feet per acre.....	2.7	3.3	2.6	...	...	...	...
NEW CAPITAL INVESTMENT, 1950-1959								
Expenditures for additional new works and								
equipment for irrigation and drainage,								
January 1, 1950-December 31, 1959.....organizations.....	78	53	17	4	3	4	1	
By U. S. B. R. ....dollars.....	17,635,571	...	...	89,621	17,545,950	89,621	...
By water users organizations.....dollars.....	2,011,272	87,440	332,554	1,237,029	...	1,217,029	354,249	

See footnote at end of table.

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

Item (For definitions and explanations, see text)	Missouri River below Three Forks, Montana, (excluding Platte and Yellowstone Rivers), and Hudson Bay (Red River of the North) (VI-C and VII)						
	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users	
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
Total entering conveyance systems.....organizations..... 							

NA Not available.

IRRIGATION OF AGRICULTURAL LANDS

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

Item (For definitions and explanations, see text)	Yellowstone River and Big Horn River (VI-F and VI-G)						
	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users	
Irrigation organizations.....organizations 1959...	293	183	90	14	...	7	4
1949.....	317	214	82	11	...	MA	10
Service area, 1959:							
Area served, as reported							
by organizations.....acres...	496,304	110,194	224,154	125,439	...	88,896	36,517
Area irrigated, as reported							
by organizations.....acres...	446,753	97,979	204,724	114,112	...	79,821	29,938
Water users served, 1959, total.....water users...	5,471	853	3,111	1,241	...	673	266
Farm irrigation water users.....water users...	4,552	797	2,413	1,076	...	667	266
Residential water users.....water users...	915	55	696	164	...	5	...
Other water users.....water users...	4	1	2	1	...	1	...
TYPE OF SERVICE, 1959							
All water directly from surface and ground							
water sources.....organizations...	275	184	75	12	...	6	4
Total water conveyed.....acre-feet...	2,282,289	436,890	1,155,025	549,586	...	432,099	140,788
Water delivered.....acre-feet...	1,720,242	365,694	902,235	313,225	...	204,288	129,088
To farm and residential users							
only.....organizations...	266	184	67	11	...	6	4
acre-feet.....	1,240,246	365,694	459,473	285,991	...	204,288	129,088
To farm and residential users and other							
irrigation organizations.....organizations...	9	...	8	1	...	...	...
Water to farm and residential							
users.....acre-feet...	365,679	...	342,945	22,734	...	...	...
Water to other irrigation							
organizations.....acre-feet...	104,317	...	99,817	4,500	...	...	...
To other irrigation organizations							
only.....organizations...	...	...	...	...	...	...	...
acre-feet.....	...	...	...	...	...	...	...
Part of water from other							
organizations.....organizations...	6	1	3	2	...	1	...
Total water conveyed.....acre-feet...	31,262	10,500	4,010	16,752	...	216	...
From surface and ground water							
sources.....acre-feet...	15,871	4,500	1,240	13,611	...	...	...
From other irrigation organizations.....acre-feet...	15,391	6,000	6,250	3,141	...	...	...
Water delivered.....acre-feet...	24,053	8,400	3,035	12,618	...	216	...
To farm and residential users							
only.....organizations...	6	1	3	2	...	1	...
acre-feet.....	24,053	8,400	3,035	12,618	...	216	...
To farm and residential users and other							
irrigation organizations.....organizations...	...	...	...	...	...	...	...
Water to farm and residential							
users.....acre-feet...	...	...	...	...	...	...	...
Water to other irrigation							
organizations.....acre-feet...	...	...	...	...	...	...	...
To other irrigation organizations							
only.....organizations...	...	...	...	...	...	...	...
acre-feet.....	...	...	...	...	...	...	...
All of water from other organizations.....organizations...	10	...	10	...	...	...	...
Total water conveyed.....acre-feet...	89,142	...	89,142	...	...	...	...
Water delivered.....acre-feet...	72,428	...	72,428	...	...	...	...
To farm and residential users							
only.....organizations...	10	...	10	...	...	...	...
acre-feet.....	72,428	...	72,428	...	...	...	...
To farm and residential users and other							
irrigation organizations.....organizations...	...	...	...	...	...	...	...
Water to farm and residential							
users.....acre-feet...	...	...	...	...	...	...	...
Water to other irrigation							
organizations.....acre-feet...	...	...	...	...	...	...	...
To other irrigation organizations							
only.....organizations...	...	...	...	...	...	...	...
acre-feet.....	...	...	...	...	...	...	...
No water conveyed.....organizations...	2	...	2	...	...	...	...
WATER FROM OTHER SOURCES							
Organizations reporting no water from other							
sources used on the land served by the							
organization.....organizations...	268	167	83	14	...	7	4
acres irrigated.....	497,140	98,921	207,436	154,266	...	117,723	36,517
water delivered to farms (acre-feet)...	449,095	88,376	189,504	141,277	...	106,986	29,938
acre-feet per acre...	1,616,026	334,016	771,124	381,798	...	273,332	129,088
Organizations reporting water from other							
sources used on land served by the							
organization.....organizations...	23	18	5	...	...	...	...
acres served.....	28,821	11,623	17,198	...	...	...	...
water delivered to farms (acre-feet)...	25,333	9,833	15,700	...	...	...	...
acre-feet per acre...	138,271	40,034	98,237	...	...	...	...
NEW CAPITAL INVESTMENT, 1950-1959							
Expenditures for additional new works and							
equipment for irrigation and drainage,							
January 1, 1950-December 31, 1959.....organizations...	179	122	44	10	...	...	3
By U. S. B. R.....dollars...	1,937,082	275,804	568,768	1,015,510	...	959,810	77,000
By water users organizations.....dollars...					...		

See footnotes at end of table.

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

		Yellowstone River and Big Horn River (VI-F and VI-G)						
Item (For definitions and explanations, see text)	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other	
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users		
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959								
Total entering conveyance systems.....organizations... acre-feet...	291 2,298,376	185 441,390	88 1,152,785	14 563,413	...	7 432,255	4 140,788	
From another drainage basin.....organizations... acre-feet...	3 2,786	1 2,290	1 280	1 216	...	1 216	...	
From drainage basin.....D. B. No.....	...	...	...	...	...	...	...
From sources within basin.....organizations... acre-feet...	279 2,295,590	185 439,100	77 1,152,505	13 563,197	...	6 432,039	4 140,788	
Surface water.....organizations... acre-feet...	278 2,294,478	184 437,988	77 1,152,505	13 563,197	...	6 432,039	4 140,788	
Ground water.....organizations... acre-feet...	3 1,112	3 1,112	...	...	...	...	...
From other organizations in the basin.....organizations receiving... acre-feet...	15 104,317	1 6,000	13 95,392	1 2,925	...	...	...
Total leaving conveyance systems.....organizations... acre-feet...	291 2,298,376	185 447,390	88 1,148,360	14 561,838	...	7 432,255	4 140,788	
Conveyance loss in basin.....organizations... acre-feet...	280 494,960	181 73,286	83 270,479	13 139,495	...	6 126,751	3 11,700	
Conveyed to another drainage basin.....organizations... acre-feet...	1 100,000	...	...	1 100,000	...	1 100,000	...
To drainage basin number.....D. B. No.....	...	...	...	...	...	...	...
Delivered for use in the basin.....organizations... acre-feet...	291 1,703,416	185 374,104	88 877,881	14 322,343	...	7 205,504	4 129,088	
To farm irrigation water users.....organizations... acre-feet...	291 1,683,319	185 373,360	88 868,401	14 312,470	...	7 204,004	4 129,088	
To domestic water users.....organizations... acre-feet...	14 19,087	3 734	3 9,480	3 8,873	...	1 500	...	
For other use.....organizations... acre-feet...	2 1,010	1 10	...	1 1,000	...	1 1,000	...	
Delivered to other irrigation organizations.....organizations delivering... acre-feet...	9 104,317	...	8 99,817	1 4,500	...	...	...
SIZE OF ORGANIZATION, 1959								
Size of organization (number of farm irrigation water users):								
None.....organizations...	2	...	2	...	...	...	...
1 to 3 water users.....organizations...	101	92	8	...	...	...	1
4 to 9 water users.....organizations...	112	86	26	...	...	...	...
10 to 29 water users.....organizations...	46	6	33	6	...	3	1	
30 to 99 water users.....organizations...	21	1	16	3	...	...	1
100 to 299 water users.....organizations...	10	...	5	4	...	3	1	
300 to 999 water users.....organizations...	1	...	...	1	...	1	...
1,000 or more water users.....organizations...	...	...	...	...	...	...	...
Size of organization (acre-feet of water delivered directly to farms):								
None.....organizations...	2	...	2	...	...	...	...
1 to 299 acre-feet.....organizations...	21	17	3	...	...	...	1
300 to 999 acre-feet.....organizations...	74	66	8	...	...	...	...
1,000 to 2,999 acre-feet.....organizations...	87	70	17	...	...	...	...
3,000 to 9,999 acre-feet.....organizations...	72	29	34	7	...	3	2	
10,000 to 29,999 acre-feet.....organizations...	25	3	20	2	...	...	...
30,000 to 99,999 acre-feet.....organizations...	9	...	5	4	...	3	...	
100,000 or more acre-feet.....organizations...	3	...	1	1	...	1	1	
Size of organization (acre-feet of water conveyed):								
None.....organizations...	2	...	2	...	...	...	...
1 to 299 acre-feet.....organizations...	17	14	2	...	...	...	1
300 to 999 acre-feet.....organizations...	68	62	6	...	...	...	...
1,000 to 2,999 acre-feet.....organizations...	80	66	14	...	...	...	...
3,000 to 9,999 acre-feet.....organizations...	75	37	34	7	...	3	2	
10,000 to 29,999 acre-feet.....organizations...	37	6	25	5	...	2	1	
30,000 to 99,999 acre-feet.....organizations...	10	...	6	4	...	1	...	
100,000 or more acre-feet.....organizations...	4	...	1	2	...	2	...	

NA Not available.

Water was transferred to the basin and released to natural stream channels in excess of the quantity of surface water withdrawn by irrigation organizations. The net effect was to increase the available surface water supply in the basin or State.

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

Missouri River Headwaters above Three Forks, Montana (VI-H)							
Item (For definitions and explanations, see text)	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users	
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
Total entering conveyance systems.....organizations...	303	260	43	...	...	...	...
acre-feet...	1,566,827	844,702	722,125	...	...	...	...
From another drainage basin.....organizations...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
From drainage basin.....D. B. No.....	...	...	...	...	...	...	...
From sources within basin.....organizations...	291	251	40	...	...	...	...
acre-feet...	1,566,827	844,702	722,125	...	...	...	...
Surface water.....organizations...	288	248	40	...	...	...	...
acre-feet...	1,549,740	837,065	712,675	...	...	...	...
Ground water.....organizations...	5	4	1	...	...	...	...
acre-feet...	17,087	7,637	9,450	...	...	...	...
From other organizations in the basin.....organizations receiving...	16	11	5	...	...	...	...
acre-feet...	89,703	25,053	64,650	...	...	...	...
Total leaving conveyance systems.....organizations...	303	260	43	...	...	...	...
acre-feet...	1,566,827	860,810	706,017	...	...	...	...
Conveyance loss in basin.....organizations...	293	252	41	...	...	...	...
acre-feet...	408,634	175,394	233,240	...	...	...	...
Conveyed to another drainage basin.....organizations...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
To drainage basin number.....D. B. No.....	...	...	...	...	...	...	...
Delivered for use in the basin.....organizations...	301	259	42	...	...	...	...
acre-feet...	1,158,193	685,416	472,777	...	...	...	...
To farm irrigation water users.....organizations...	301	259	42	...	...	...	...
acre-feet...	1,152,553	684,694	467,859	...	...	...	...
To domestic water users.....organizations...	5	2	3	...	...	...	...
acre-feet...	5,640	722	4,918	...	...	...	...
For other use.....organizations...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
Delivered to other irrigation organizations.....organizations delivering...	9	2	7	...	...	...	...
acre-feet...	89,703	8,945	80,758	...	...	...	...
SIZE OF ORGANIZATION, 1959							
Size of organization (number of farm irrigation water users):							
None.....organizations...	6	3	3	...	...	...	...
1 to 3 water users.....organizations...	184	180	4	...	...	...	...
4 to 9 water users.....organizations...	67	58	9	...	...	...	...
10 to 29 water users.....organizations...	40	19	21	...	...	...	...
30 to 99 water users.....organizations...	8	...	8	...	...	...	...
100 to 299 water users.....organizations...	...	...	...	...	...	...	...
300 to 999 water users.....organizations...	...	...	...	...	...	...	...
1,000 or more water users.....organizations...	...	...	...	...	...	...	...
Size of organization (acre-feet of water delivered directly to farms):							
None.....organizations...	4	1	3	...	...	...	...
1 to 299 acre-feet.....organizations...	20	20	...	...	...	...	...
300 to 999 acre-feet.....organizations...	71	68	3	...	...	...	...
1,000 to 2,999 acre-feet.....organizations...	102	97	5	...	...	...	...
3,000 to 9,999 acre-feet.....organizations...	78	63	15	...	...	...	...
10,000 to 29,999 acre-feet.....organizations...	29	11	18	...	...	...	...
30,000 to 99,999 acre-feet.....organizations...	1	...	1	...	...	...	...
100,000 or more acre-feet.....organizations...	...	...	...	...	...	...	...
Size of organization (acre-feet of water conveyed):							
None.....organizations...	2	...	2	...	...	...	...
1 to 299 acre-feet.....organizations...	15	15	...	...	...	...	...
300 to 999 acre-feet.....organizations...	63	63	...	...	...	...	...
1,000 to 2,999 acre-feet.....organizations...	100	94	6	...	...	...	...
3,000 to 9,999 acre-feet.....organizations...	83	70	13	...	...	...	...
10,000 to 29,999 acre-feet.....organizations...	34	18	16	...	...	...	...
30,000 to 99,999 acre-feet.....organizations...	8	...	8	...	...	...	...
100,000 or more acre-feet.....organizations...	...	...	...	...	...	...	...

NA Not available.

IRRIGATION OF AGRICULTURAL LANDS

State Table 5.—NUMBER OF IRRIGATION ORGANIZATIONS, TYPE OF SERVICE, NEW CAPITAL INVESTMENT, AND WATER CONVEYED, BY SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUS OF 1959

Item (For definitions and explanations, see text)		Montana, total				Columbia River above Snake River excluding Yakima River		
		(I-C)						
		Size of organization, by total water conveyed						
		0-999 acre-feet	1,000- 9,999 acre-feet	10,000- 99,999 acre-feet	100,000 or more acre-feet	0-999 acre-feet	1,000-9,999 acre-feet	10,000 or more acre-feet
1	Number of organizations.....organizations..	378	537	129	6	151	135	13
TYPE OF SERVICE								
2	All water directly from surface and ground sources.....organizations..	364	516	116	6	150	135	10
3	Total water conveyed.....acre-feet...	175,188	1,723,066	2,859,586	1,060,214	63,890	395,498	435,108
4	Water delivered.....acre-feet...	148,470	1,402,042	2,110,785	660,219	53,760	316,291	258,894
5	To farm and residential users only.....organizations..	363	509	102	5	150	134	10
6	To farm and residential users only.....acre-feet...	147,745	1,360,228	1,644,128	488,779	53,760	311,921	258,894
7	To farm and residential users and other							
8	irrigation organizations.....organizations..	1	7	14	1	...	1	...
9	Water to farm and residential users.....acre-feet...	675	25,826	272,537	128,340	...	3,620	...
10	Water to other irrigation organizations.....acre-feet...	50	15,988	194,100	43,300	...	750	...
11	To other irrigation organizations only.....organizations..	...	...	...	...	...	...	...
12	To other irrigation organizations only.....acre-feet...	...	...	...	...	...	...	...
13	Part of water from other organizations.....organizations..	5	8	6	...	...	...	3
14	Total water conveyed.....acre-feet...	3,282	25,799	153,496	...	...	...	126,242
15	From surface and ground water sources.....acre-feet...	1-1,440	17,119	139,128	...	...	...	121,017
16	From other irrigation organizations.....acre-feet...	4,722	8,680	14,366	...	...	...	5,225
17	Water delivered.....acre-feet...	2,645	20,712	119,017	...	...	...	97,999
18	To farm and residential users only.....organizations..	5	7	...	...	...	...	1
19	To farm and residential users and other	2,645	13,512	92,895	4	...	...	71,877
20	irrigation organizations.....organizations..	...	1	2	...	...	...	2
21	Water to farm and residential users.....acre-feet...	...	3,300	21,647	...	...	...	21,647
22	Water to other irrigation organizations.....acre-feet...	...	3,900	4,475	...	...	...	4,475
23	To other irrigation organizations only.....organizations..	...	...	...	...	...	...	...
24	To other irrigation organizations only.....acre-feet...	...	...	...	...	...	...	...
25	All of water from other organizations.....organizations..	3	13	7	...	...	...	...
26	Total water conveyed.....acre-feet...	308	52,765	181,188	...	...	...	...
27	Water delivered.....acre-feet...	273	41,745	131,767	...	...	...	...
28	To farm and residential users only.....organizations..	3	13	7	...	...	...	...
29	To farm and residential users and other	273	41,745	131,767	...	...	...	...
30	irrigation organizations.....organizations..	...	...	...	...	...	...	...
31	Water to farm and residential users.....acre-feet...	...	...	...	...	...	...	...
32	Water to other irrigation organizations.....acre-feet...	...	...	...	...	...	...	...
33	To other irrigation organizations only.....organizations..	...	...	...	...	...	...	...
34	To other irrigation organizations only.....acre-feet...	...	...	...	...	...	...	...
35	No water conveyed.....organizations..	6	...	...	...	1	...	...
WATER FROM OTHER SOURCES								
36	Organizations reporting no water from other sources used							
37	on land served by the organization.....organizations..	305	395	102	6	112	100	11
38	acres served.....	88,772	350,795	681,691	286,326	23,020	78,054	173,234
39	acres irrigated.....	58,452	304,080	530,385	266,522	17,526	69,770	145,705
40	Organizations reporting water from other sources used							
41	on land served by the organization.....organizations..	67	142	25	...	38	35	2
42	acres served.....	18,001	130,515	116,796	...	8,628	28,333	4,820
43	acres irrigated.....	11,707	101,323	102,603	...	6,144	23,863	3,570
NEW CAPITAL INVESTMENT, 1950-1959								
44	Expenditures for additional new works and							
45	equipment for irrigation and drainage,							
46	January 1, 1950-December 31, 1959.....organizations..	155	280	74	5	62	62	9
47	dollars.....	162,081	1,164,279	2,165,830	1,348,511	50,874	282,214	1,883,408
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959								
48	Total entering conveyance systems in basin.....organizations..	372	537	129	6	150	135	13
49	From another drainage basin.....organizations..	173,748	1,740,185	2,998,930	1,060,214	63,890	395,498	556,125
50	From another drainage basin.....acre-feet...	...	1	2	...	...	...	...
51	From drainage basin number.....D. B. No.....	...	2,570	216	...	...	...	...
52	From natural sources within basin.....organizations..	367	523	121	6	150	135	13
53	Surface water.....organizations..	173,748	1,737,615	2,998,714	1,060,214	63,890	395,498	556,125
54	From natural sources within basin.....acre-feet...	362	517	120	6	146	133	13
55	Ground water.....organizations..	171,632	1,712,779	2,978,014	1,060,214	62,286	381,447	556,125
56	From other organizations in the basin.....organizations..	6	11	2	...	...	...	...
57	From other organizations in the basin.....acre-feet...	2,116	24,836	20,700	...	1,604	14,051	...
58	From other organizations in the basin.....organizations..	8	21	12	...	...	...	3
59	From other organizations in the basin.....acre-feet...	5,030	61,445	195,338	...	...	...	5,225
60	Total leaving conveyance systems.....organizations..	372	537	129	6	150	135	13
61	Conveyance loss in basin.....organizations..	178,728	1,781,742	2,995,693	1,016,914	63,890	394,748	556,875
62	Conveyance loss in basin.....acre-feet...	...	519	6	...	125	125	13
63	Conveyed to another drainage basin.....organizations..	27,380	337,074	820,652	298,995	10,130	79,205	204,457
64	To drainage basin number.....D. B. No.....	...	...	...	100,000	...	...	...
65	Delivered for use in the basin.....organizations..	372	536	127	6	150	135	13
66	To farm irrigation water users.....organizations..	151,348	1,444,668	2,175,041	617,919	53,760	315,543	362,418
67	To farm irrigation water users.....acre-feet...	372	536	127	6	150	135	13
68	To residential water users.....organizations..	150,521	1,437,232	2,139,636	606,332	53,197	315,311	342,331
69	To residential water users.....acre-feet...	11	9	8	2	6	2	1
70	For other use.....organizations..	817	7,379	23,398	10,587	563	230	10,087
71	Delivered to other use.....organizations..	1	2	1	...	...	1	...
72	Delivered to other use.....acre-feet...	10	57	12,047	1,000	...	1	...
73	Delivered to other use.....organizations..	1	8	16	1	...	1	2
74	Delivered to other use.....acre-feet...	50	19,888	198,575	43,300	...	750	4,475
AVERAGE DELIVERY OF IRRIGATION WATER PER ACRE, 1959								
75	Per acre irrigated, as reported by irrigation organization:							
76	All organizations.....acre-feet...	2.1	3.6	3.4	2.4	2.2	3.4	2.2
77	Organizations reporting no water from other sources used							
78	on land served by the organization.....organizations..	305	395	102	6	112	100	11
79	on land served by the organization.....acre-feet...	2.1	3.4	3.3	2.4	2.2	3.3	2.2

¹Water was transferred to the basin and released to natural stream channels in excess of the quantity of surface water withdrawn by irrigation organizations. The net effect was to increase the available surface water supply in the basin or State.

State Table 5.—NUMBER OF IRRIGATION ORGANIZATIONS, TYPE OF SERVICE, NEW CAPITAL INVESTMENT, AND WATER CONVEYED, BY SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUS OF 1959—Continued

Item (For definitions and explanations, see text)		Missouri River below Three Forks, Montana, excluding Platte and Yellowstone Rivers, and Hudson Bay (Red River of the North) (VI-C and VII)			Yellowstone and Big Horn Rivers (VI-F and VI-G)			
		Size of organization, by total water conveyed						
		0-999 acre-feet	1,000-9,999 acre-feet	10,000 or more acre-feet	0-999 acre-feet	1,000-9,999 acre-feet	10,000-99,999 acre-feet	100,000 or more acre-feet
1	Number of organizations.....organizations...	60	64	29	87	155	47	4
TYPE OF SERVICE								
2	All water directly from surface and ground sources.....organizations...	58	60	27	81	149	41	4
3	Total water conveyed.....acre-feet...	25,785	174,498	888,294	45,160	542,858	1,013,674	680,597
4	Water delivered.....acre-feet...	21,552	133,571	651,597	39,595	456,062	771,781	442,804
5	To farm and residential users only.....organizations...	57	59	24	81	148	34	3
6	To farm and residential users and other irrigation organizations.....organizations...	20,827	125,381	566,116	39,595	451,717	477,570	271,364
7	Water to farm and residential users.....acre-feet...	1	1	3	...	1	7	1
8	Water to other irrigation organizations.....acre-feet...	675	6,190	24,963	...	1,420	236,119	128,140
9	To other irrigation organizations only.....organizations...	50	2,000	60,518	...	2,925	58,092	43,300
10	To other irrigation organizations only.....acre-feet...	...	...	...	...	...	...	...
11	Part of water from other organizations.....organizations...	1	3	...	2	1	3	...
12	Total water conveyed.....acre-feet...	350	4,914	...	1,510	2,500	27,252	...
13	From surface and ground water sources.....acre-feet...	300	3,484	...	1,740	1,500	18,111	...
14	From other irrigation organizations.....acre-feet...	50	1,430	...	2,250	3,000	9,141	...
15	Water delivered.....acre-feet...	250	4,625	...	1,035	2,000	21,018	...
16	To farm and residential users only.....organizations...	1	3	...	2	1	3	...
17	To farm and residential users and other irrigation organizations.....organizations...	250	4,625	...	1,035	2,000	21,018	...
18	Water to farm and residential users.....acre-feet...	...	...	...	...	...	...	...
19	Water to other irrigation organizations.....acre-feet...	...	...	...	...	...	...	...
20	To other irrigation organizations only.....organizations...	...	...	...	...	...	...	...
21	To other irrigation organizations only.....acre-feet...	...	...	...	...	...	...	...
22	All of water from other organizations.....organizations...	...	1	2	2	5	3	...
23	Total water conveyed.....acre-feet...	...	2,000	59,088	175	23,267	65,700	...
24	Water delivered.....acre-feet...	...	1,800	42,717	153	17,065	55,210	...
25	To farm and residential users only.....organizations...	...	1	2	2	5	3	...
26	To farm and residential users and other irrigation organizations.....organizations...	...	1,800	42,717	153	17,065	55,210	...
27	Water to farm and residential users.....acre-feet...	...	...	...	...	...	...	...
28	Water to other irrigation organizations.....acre-feet...	...	...	...	...	...	...	...
29	To other irrigation organizations only.....organizations...	...	...	...	...	...	...	...
30	To other irrigation organizations only.....acre-feet...	...	...	...	...	...	...	...
31	No water conveyed.....organizations...	1	...	...	2	...	...	...
WATER FROM OTHER SOURCES								
32	Organizations reporting no water from other sources used on land served by the organization.....organizations...	54	50	24	81	139	44	4
33	acres served.....	32,671	69,679	359,194	19,042	125,180	231,501	121,417
34	acres irrigated.....	13,953	54,453	260,623	16,618	116,086	208,889	107,502
35	Organizations reporting water from other sources used on land served by the organization.....organizations...	5	14	4	4	16	3	...
36	acres served.....	2,795	16,632	36,627	1,250	14,171	13,400	...
37	acres irrigated.....	930	10,822	27,952	700	11,933	12,900	...
NEW CAPITAL INVESTMENT, 1950-1959								
38	Expenditures for additional new works and equipment for irrigation and drainage, January 1, 1950-December 31, 1959.....dollars...	35,290	252,342	19,399,211	50,240	348,810	1,415,631	122,401
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959								
39	Total entering conveyance systems in basin.....organizations...	59	64	30	86	155	46	4
40	From another drainage basin.....acre-feet...	26,085	177,982	888,294	43,636	542,358	1,031,785	680,597
41	From Drainage Basin number.....D. B. No.....	...	...	...	...	...	...	...
42	From natural sources within basin.....organizations...	59	63	28	83	149	43	4
43	Surface water.....acre-feet...	26,085	177,982	888,294	43,420	539,788	1,031,785	680,597
44	Ground water.....organizations...	59	62	27	82	149	43	4
45	From other organizations in the basin.....acre-feet...	26,085	175,434	877,044	42,908	539,188	1,031,785	680,597
46	From other organizations in the basin.....organizations receiving...	1	2	1	1	2	...	...
47	Total leaving conveyance systems.....acre-feet...	50	3,430	59,088	3,425	26,267	74,625	...
48	Conveyance loss in basin.....organizations...	59	64	30	86	155	46	4
49	Conveyed to another drainage basin.....acre-feet...	26,085	179,412	886,864	47,061	565,700	1,048,318	637,297
50	To farm irrigation water users.....organizations...	55	61	27	80	152	44	4
51	To residential water users.....acre-feet...	4,333	41,361	241,021	6,052	93,498	258,617	136,793
52	For other use.....organizations...	...	...	...	...	...	...	...
53	Delivered to other irrigation organizations.....D. B. No.....	...	...	...	...	...	...	...
54	Delivered to other irrigation organizations.....organizations...	59	138,091	645,843	41,009	472,202	789,701	400,504
55	To farm irrigation water users.....acre-feet...	21,759	137,914	627,511	40,912	470,775	772,628	399,004
56	To residential water users.....organizations...	1	2	1	1	2	...	...
57	For other use.....acre-feet...	167	82	6,285	87	1,427	17,073	500
58	Delivered to other irrigation organizations.....organizations...	...	1	5	1	...	...	...
59	Delivered to other irrigation organizations.....acre-feet...	...	55	12,047	10	...	...	1,000
60	AVERAGE DELIVERY OF IRRIGATION WATER PER ACRE, 1959	...	...	...	...	...	...	...
61	Per acre irrigated, as reported by irrigation organization:							
62	All organizations.....acre-feet...	1.5	2.1	2.2	2.4	3.7	3.5	3.7
63	Organizations reporting no water from other sources used	54	50	24	81	139	44	4
64	on land served by the organization.....organizations...	1.4	1.9	2.2	2.4	3.7	3.4	4.0

¹Water was transferred to the basin and released to natural stream channels in excess of the quantity of surface water withdrawn by irrigation organizations. The net effect was to increase the available surface water supply in the basin or State.

IRRIGATION OF AGRICULTURAL LANDS

State Table 5.—NUMBER OF IRRIGATION ORGANIZATIONS, TYPE OF SERVICE, NEW CAPITAL INVESTMENT, AND WATER CONVEYED, BY SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUS OF 1959—Continued

Item (For definitions and explanations, see text)	Missouri River Headwaters above Three Forks, Mmtans (VI-R) Size of organization, by total water conveyed			
	0-999 acre-feet	1,000-9,999 acre-feet	10,000-99,999 acre-feet	100,000 or more acre-feet
1 Number of organizations.....organizations...	80	183	42	...
TYPE OF SERVICE				
2 All water directly from surface and ground sources....organizations...	75	172	40	...
3 Total water conveyed.....acre-feet...	40,353	610,212	902,127	...
4 Water delivered.....acre-feet...	33,563	496,118	645,928	...
5 To farm and residential users only.....organizations...	75	168	36	...
6 To farm and residential users only.....acre-feet...	33,563	471,209	558,963	...
7 To farm and residential users and other irrigation organizations.....organizations...	...	4	4	...
8 Water to farm and residential users.....acre-feet...	...	14,596	11,475	...
9 Water to other irrigation organizations.....acre-feet...	...	10,313	75,490	...
10 To other irrigation organizations only.....organizations...	...	...	...	...
11 To other irrigation organizations only.....acre-feet...	...	...	...	...
12 Part of water from other organizations.....organizations...	2	4	...	...
13 Total water conveyed.....acre-feet...	1,422	18,385	...	...
14 From surface and ground water sources.....acre-feet...	...	14,135	...	...
15 From other irrigation organizations.....acre-feet...	1,422	4,250	...	...
16 Water delivered.....acre-feet...	1,360	14,087	...	...
17 To farm and residential users only.....organizations...	2	3	...	...
18 To farm and residential users only.....acre-feet...	1,360	6,887	...	...
19 To farm and residential users and other irrigation organizations.....organizations...	...	1	...	...
20 Water to farm and residential users.....acre-feet...	...	3,300	...	...
21 Water to other irrigation organizations.....acre-feet...	...	...	...	...
22 To other irrigation organizations only.....organizations...	...	...	...	...
23 To other irrigation organizations only.....acre-feet...	...	...	...	...
24 All of water from other organizations.....organizations...	1	7	2	...
25 Total water conveyed.....acre-feet...	133	27,498	56,400	...
26 Water delivered.....acre-feet...	120	22,880	33,840	...
27 To farm and residential users only.....organizations...	1	7	2	...
28 To farm and residential users only.....acre-feet...	120	22,880	33,840	...
29 To farm and residential users and other irrigation organizations.....organizations...	...	...	...	...
30 Water to farm and residential users.....acre-feet...	...	...	...	...
31 Water to other irrigation organizations.....acre-feet...	...	...	...	...
32 To other irrigation organizations only.....organizations...	...	...	...	...
33 To other irrigation organizations only.....acre-feet...	...	...	...	...
34 No water conveyed.....organizations...	2	...	...	...
WATER FROM OTHER SOURCES				
35 Organizations reporting no water from other sources used on land served by the organization.....organizations...	58	106	25	...
36 acres served.....	14,039	77,882	82,671	...
37 acres irrigated.....	10,355	63,772	76,188	...
38 Organizations reporting water from other sources used on land served by the organization.....organizations...	20	77	16	...
39 acres served.....	5,328	71,108	61,907	...
40 acres irrigated.....	3,933	54,705	58,181	...
NEW CAPITAL INVESTMENT, 1950-1959				
41 Expenditures for additional new works and equipment for irrigation and drainage, January 1, 1950-December 31, 1959.....organizations...	21	81	22	...
42 dollars.....	25,677	280,913	133,690	...
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959				
43 Total entering conveyance systems in basin.....organizations...	78	183	42	...
44 From another drainage basin.....organizations...	40,353	624,347	902,127	...
45 From another drainage basin.....acre-feet...	...	...	...	...
46 From another drainage basin.....D. B. No.....	...	...	...	...
47 From natural sources within basin.....organizations...	75	176	40	...
48 From natural sources within basin.....acre-feet...	40,353	624,347	902,127	...
49 Surface water.....organizations...	75	173	40	...
50 Surface water.....acre-feet...	40,353	616,710	892,677	...
51 Ground water.....organizations...	...	4	1	...
52 Ground water.....acre-feet...	...	7,637	9,450	...
53 From other organizations in the basin.....organizations receiving...	3	11	2	...
54 From other organizations in the basin.....acre-feet...	1,555	31,748	56,400	...
55 Total leaving conveyance systems.....organizations...	78	183	42	...
56 All organizations.....acre-feet...	41,908	641,882	883,037	...
57 Conveyance loss in basin.....organizations...	73	181	39	...
58 Conveyance loss in basin.....acre-feet...	6,865	123,010	278,799	...
59 Conveyed to another drainage basin.....organizations...	...	...	...	...
60 Conveyed to another drainage basin.....acre-feet...	...	...	...	...
61 Conveyed to another drainage basin.....D. B. No.....	...	...	...	...
62 Delivered for use in the basin.....organizations...	78	182	41	...
63 Delivered for use in the basin.....acre-feet...	35,043	518,872	604,278	...
64 To farm irrigation water users.....organizations...	78	182	41	...
65 To farm irrigation water users.....acre-feet...	35,043	513,232	604,278	...
66 To residential water users.....organizations...	...	3	...	...
67 To residential water users.....acre-feet...	...	5,640	...	...
68 For other use.....organizations...	...	...	...	...
69 For other use.....acre-feet...	...	...	...	...
70 Delivered to other irrigation organizations.....organizations delivering...	...	5	4	...
71 Delivered to other irrigation organizations.....acre-feet...	...	14,213	75,490	...
AVERAGE DELIVERY OF IRRIGATION WATER PER ACRE, 1959				
72 Per acre irrigated, as reported by irrigation organization:				
73 All organizations.....acre-feet...	2.5	4.3	4.5	...
74 Organizations reporting no water from other sources used on land served by the organization.....organizations...	58	106	25	...
75 acres irrigated.....	2.5	4.4	23.8	...

NEBRASKA

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IRRIGATION OF AGRICULTURAL LANDS

State Table 1.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY DRAINAGE BASINS:
CENSUSES OF 1959 AND 1950

Item (For definitions and explanations, see text)	The State	Missouri River excluding Platte River (VI-C)						
		Total	Missouri River direct	Kansas River			Niobrara River and White River	Cheyenne River direct (Hat Creek)
				Total	Kansas River direct	Republican River		
		(1a)	(2a)	(2b, c, d)	(3, 4)	(5a)		
1 Total acres irrigated in Census year.....1959...	2,077,926	799,311	10,000	725,000	541,000	184,000	61,000	3,000
2 1949...	887,239	125,192	369	91,398	57,717	33,681	29,092	4,333
3 Irrigation organizations.....organizations 1959...	68	11	...	7	...	7	4	...
4 1949...	68	9	...	5	...	5	4	...
5 Service area, 1959:								
6 Farm area reported served by organizations.....acres 1959...	858,969	93,659	...	73,631	...	73,631	20,028	...
7 Farm area reported irrigated by organizations.....acres 1959...	706,339	81,844	...	62,578	...	62,578	19,266	...
8 Water users served, total.....water users 1959...	9,259	1,049	...	899	...	899	150	...
9 Farm irrigation water users.....water users 1959...	9,225	1,049	...	899	...	899	150	...
10 Residential water users.....water users 1959...	34	...	...	...	...	...	...	...
11 Other water users.....water users 1959...	...	...	...	...	...	...	...	...
12 LAND IRRIGATED BY SOURCE OF WATER, 1959								
13 Ground water sources.....acres...	1,445,029	667,000	9,000	626,000	516,000	110,000	32,000	...
14 Surface water sources.....acres...	632,897	132,000	1,000	99,000	25,000	74,000	29,000	3,000
15 WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959								
16 Total entering conveyance systems in basin.....organizations... acre-feet...	68 2,006,735	11 210,242	...	7 176,584	...	7 176,584	4 33,658	...
17 From another drainage basin.....organizations... acre-feet...	4 550,515	1 10,032	...	1 10,032	...	1 10,032	...	...
18 From drainage basin number.....D. B. No....	...	...	...	...	...	...	...	...
19 From natural sources within basin.....organizations... acre-feet...	62 1,456,220	9 200,210	...	5 166,552	...	5 166,552	4 33,658	...
20 Surface water.....organizations... acre-feet...	62 1,452,443	9 200,210	...	5 166,552	...	5 166,552	4 33,658	...
21 Ground water.....organizations... acre-feet...	1 3,777	...	...	...	...	...	...	...
22 From other organizations in the basin.....organizations receiving... acre-feet...	4 87,111	1 31,047	...	1 31,047	...	1 31,047	...	...
23 Total leaving conveyance systems.....organizations... acre-feet...	68 2,006,735	11 210,242	...	7 176,584	...	7 176,584	4 33,658	...
24 Conveyance loss in basin.....organizations... acre-feet...	67 879,994	10 54,237	...	6 46,815	...	6 46,815	4 7,422	...
25 Conveyed to another drainage basin.....organizations... acre-feet...	1 31,047	1 31,047	...	1 31,047	...	1 31,047	...	...
26 To drainage basin number.....D. B. No....	...	...	...	...	...	...	...	...
27 Delivered for use in the basin.....organizations... acre-feet...	66 1,095,694	10 124,958	...	6 98,722	...	6 98,722	4 26,236	...
28 To farm irrigation water users.....organizations... acre-feet...	66 1,095,537	10 124,958	...	6 98,722	...	6 98,722	4 26,236	...
29 To residential water users.....organizations... acre-feet...	1 157	...	...	...	...	...	...	...
30 For other use.....organizations... acre-feet...	...	...	...	...	...	...	...	...
31 Delivered to other irrigation organizations.....organizations delivering... acre-feet...	4 87,111	1 31,047	...	1 31,047	...	1 31,047	...	...
32 Average delivery of irrigation water per acre irrigated as reported by organizations...acre-feet...	1.6	1.5	...	1.6	...	1.6	1.0	...
33 NEW CAPITAL INVESTMENT, 1950-1959								
34 Expenditures for additional new works and equipment for irrigation and drainage, Jan. 1, 1950-Dec. 31, 1959.....organizations... dollars...	43 13,839,550	8 4,684,898	...	5 4,603,897	...	5 4,603,897	3 81,001	...

State Table 1.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY DRAINAGE BASINS:
CENSUSES OF 1959 AND 1950—Continued

Item (For definitions and explanations, see text)	Platte River excluding South Platte River (VI-D)								South Platte River (VI-E) above Gaging Station near Paxton
	Total	Platte River direct			Loup River	North Platte River direct including South Platte below Paxton Gage			
		Total	Below Duncan	Duncan to North Platte		Total	Below Kingley Dam including South Platte below Paxton Gage	Above Kingley Dam	
(1a)	(1b)	(2)	(3a)	(3b)					
1 Total acres irrigated in Census year.....1959...	1,235,000	698,000	102,000	596,000	188,000	349,000	48,000	301,000	44,000
2 1949...	726,321	340,410	NA	NA	55,199	330,732	38,165	292,567	35,726
3 Irrigation organizations.....organizations 1959...	52	9	...	9	4	39	7	32	5
4 1949...	54	9	NA	NA	3	42	8	34	5
5 Service area, 1959:									
6 Farm area reported served by organizations.....acres 1959...	745,624	286,834	...	286,834	67,622	391,168	45,216	345,952	19,686
7 Farm area reported irrigated by organizations.....acres 1959...	606,220	187,932	...	187,932	45,274	373,014	43,889	329,125	18,275
8 Water users served, total.....water users 1959...	8,045	2,436	...	2,436	868	4,741	471	4,270	165
9 Farm irrigation water users.....water users 1959...	8,011	2,436	...	2,436	868	4,707	471	4,236	165
10 Residential water users.....water users 1959...	34	...	...	...	...	34	...	34	...
11 Other water users.....water users 1959...	...	...	...	...	...	...	...	...	...
12 LAND IRRIGATED BY SOURCE OF WATER, 1959									
13 Ground water sources.....acres...	743,000	562,000	97,000	465,000	127,000	54,000	15,000	39,000	35,000
14 Surface water sources.....acres...	492,000	136,000	5,000	131,000	61,000	295,000	33,000	262,000	9,000
15 WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959									
16 Total entering conveyance systems in basin.....organizations... acre-feet...	52	9	...	9	4	39	7	32	5
17 1,766,267	475,919	...	475,919	104,505	1,185,843	101,680	1,084,163	30,226	...
18 From another drainage basin.....organizations... acre-feet...	2	...	...	...	...	2	...	2	1
19 536,991	...	...	...	...	...	536,991	...	536,991	3,492
20 From drainage basin number.....D. B. No....	...	...	...	...	...	...	...	VI-D-3b	...
21 From natural sources within basin.....organizations... acre-feet...	49	9	...	9	3	37	7	30	4
22 1,229,276	475,919	...	475,919	104,505	648,852	101,680	547,172	26,734	...
23 Surface water.....organizations... acre-feet...	49	9	...	9	3	37	7	30	4
24 1,225,499	472,142	...	472,142	104,505	648,852	101,680	547,172	26,734	...
25 Ground water.....organizations... acre-feet...	1	1	...	1	...	...	...	...	...
26 3,777	3,777	...	3,777	...	...	...	...	...	...
27 From other organizations in the basin.....organizations receiving... acre-feet...	3	...	...	...	1	2	...	2	...
28 56,064	...	...	...	...	10,378	45,686	...	45,686	...
29 Total leaving conveyance systems.....organizations... acre-feet...	52	9	...	9	4	39	7	32	5
30 1,766,267	475,919	...	475,919	104,505	1,185,843	101,680	1,084,163	30,226	...
31 Conveyance loss in basin.....organizations... acre-feet...	52	9	...	9	4	39	7	32	5
32 820,843	234,965	...	234,965	49,354	536,524	34,195	502,329	4,914	...
33 Conveyed to another drainage basin.....organizations... acre-feet...	...	...	...	...	...	...	...	...	...
34 To drainage basin number.....D. B. No....	...	...	...	...	...	...	...	...	...
35 Delivered for use in the basin.....organizations... acre-feet...	51	9	...	9	3	39	7	32	5
36 945,424	240,954	...	240,954	55,151	649,319	67,485	581,834	25,312	...
37 To farm irrigation water users.....organizations... acre-feet...	51	9	...	9	3	39	7	32	5
38 945,267	240,954	...	240,954	55,151	649,162	67,485	581,677	25,312	...
39 To residential water users.....organizations... acre-feet...	1	...	...	...	...	1	...	1	...
40 157	...	...	...	...	157	...	...	157	...
41 For other use.....organizations... acre-feet...	...	...	...	...	...	...	...	...	...
42 Delivered to other irrigation organizations.....organizations delivering... acre-feet...	3	...	...	...	1	2	...	2	...
43 56,064	...	...	...	...	10,378	45,686	...	45,686	...
44 Average delivery of irrigation water per acre irrigated as reported by organizations...acre-feet...	1.6	1.3	...	1.3	1.2	1.7	1.5	1.8	1.4
45 NEW CAPITAL INVESTMENT, 1950-1959									
Expenditures for additional new works and equipment for irrigation and drainage, Jan. 1, 1950-Dec. 31, 1959.....organizations... dollars...	31	4	...	4	3	24	5	19	4
9,135,552	1,152,625	...	1,152,625	5,802,632	2,180,295	56,780	2,123,515	19,100	...

State Table 2.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION. BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950

Item (For definitions and explanations, see text)	Nebraska, total	Item (For definitions and explanations, see text)	Nebraska, total
Irrigation organizations, total number.....organizations 1959..... .....1949.....	68 68	TYPE OF SERVICE, 1959	
Area irrigated as reported by organizations.....acres 1959..... .....1949.....	706,339 508,161	All water directly from surface and ground water sources.....organizations... Total water conveyed.....acre-feet...	62 1,858,915
Farm water users served directly.....water users 1959..... Total water conveyed.....acre-feet 1959.....	9,225 2,093,846	Water delivered.....acre-feet... To farm and residential users only.....organizations... .....acre-feet...	1,062,435 57 665,788
TYPE OF ORGANIZATION		To farm and residential users and other irrigation organizations.....organizations... Water to farm and residential users.....acre-feet... Water to other irrigation organizations.....acre-feet... To other irrigation organizations only.....organizations... .....acre-feet...	4 309,536 76,733 1 10,378
Mutual:		Part of water from other organizations.....organizations... Total water conveyed.....acre-feet... From surface and ground water sources.....acre-feet... From other irrigation organizations.....acre-feet... Water delivered.....acre-feet... To farm and residential users only.....organizations... .....acre-feet... To farm and residential users and other irrigation organizations.....organizations... Water to farm and residential users.....acre-feet... Water to other irrigation organizations.....acre-feet... To other irrigation organizations only.....organizations... .....acre-feet...	3 35,919 2,577 33,342 3,956 2 1,104 1 2,852
Unincorporated.....organizations 1959..... .....1949..... Farm area irrigated directly.....acres 1959..... Farm water users served directly.....water users 1959..... Total water conveyed.....acre-feet 1959.....	9 11 (D) (D) (D)		
Incorporated.....organizations 1959..... .....1949..... Farm area irrigated directly.....acres 1959..... Farm water users served directly.....water users 1959..... Total water conveyed.....acre-feet 1959.....	17 15 64,742 791 166,546		
District.....organizations 1959..... .....1949..... Farm area irrigated directly.....acres 1959..... Farm water users served directly.....water users 1959..... Total water conveyed.....acre-feet 1959.....	40 39 600,265 7,861 1,844,094		
U. S. Bureau of Reclamation; projects and storage systems operated by bureau.....organizations 1959..... .....1949..... Farm area irrigated directly.....acres 1959..... Farm water users served directly.....water users 1959..... Total water conveyed.....acre-feet 1959.....	... 2		
U. S. Bureau of Reclamation; operated by water users.....organizations 1959..... .....1949..... Farm area irrigated directly.....acres 1959..... Farm water users served directly.....water users 1959..... Total water conveyed.....acre-feet 1959.....	9 3 240,028 3,324 822,089		
U. S. Bureau of Indian Affairs.....organizations 1959..... .....1949..... Farm area irrigated directly.....acres 1959..... Farm water users served directly.....water users 1959..... Total water conveyed.....acre-feet 1959.....	... ... ... ... ...	
Commercial.....organizations 1959..... .....1949..... Farm area irrigated directly.....acres 1959..... Farm water users served directly.....water users 1959..... Total water conveyed.....acre-feet 1959.....	1 1 (D) (D) (D)		
State.....organizations 1959..... .....1949..... Farm area irrigated directly.....acres 1959..... Farm water users served directly.....water users 1959..... Total water conveyed.....acre-feet 1959.....	1 ... (D) (D) (D)		
City.....organizations 1959..... .....1949..... Farm area irrigated directly.....acres 1959..... Farm water users served directly.....water users 1959..... Total water conveyed.....acre-feet 1959.....	... ... ... ... ...	
D Data not shown to avoid disclosure of information for individual organizations.		WATER FROM OTHER SOURCES	
		Organizations reporting no water from other sources used on land served by the organization.....organizations... .....acres served... .....acres irrigated... Water delivered to farms.....acre-feet... .....acre-feet per acre...	62 848,109 687,083 1,059,054 1.5
		Organizations reporting water from other sources used on land served by the organization.....organizations... .....acres served... .....acres irrigated... Water delivered to farms.....acre-feet... .....acre-feet per acre...	5 44,769 37,839 70,393 1.9

State Table 2.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Continued

Item (For definitions and explanations, see text)	Nebraska, total	Item (For definitions and explanations, see text)	Nebraska, total
WATER DELIVERED PER ACRE		SIZE OF ORGANIZATION—Continued	
Organizations reporting no water from other sources used on same land:		Size of organization (acre-feet of water delivered directly to farms):	
0.1 to 0.9 acre-feet per acre.....organizations...	7	None.....organizations...	1
.....acres irrigated...	142,167		
1.0 to 1.9 acre-feet per acre.....organizations...	24	1 to 299 acre-feet.....organizations...	1
.....acres irrigated...	431,215	.....acre-feet...	200
2.0 to 2.9 acre-feet per acre.....organizations...	22	300 to 999 acre-feet.....organizations...	5
.....acres irrigated...	92,064	.....acre-feet...	3,179
3.0 to 3.9 acre-feet per acre.....organizations...	8		
.....acres irrigated...	17,448	1,000 to 2,999 acre-feet.....organizations...	14
4.0 to 4.9 acre-feet per acre.....organizations...	1	.....acre-feet...	22,318
.....acres irrigated...	4,189	3,000 to 9,999 acre-feet.....organizations...	18
5.0 to 5.9 acre-feet per acre.....organizations...	...	.....acre-feet...	117,387
.....acres irrigated...	...		
6.0 to 6.9 acre-feet per acre.....organizations...	...	10,000 to 29,999 acre-feet.....organizations...	21
.....acres irrigated...	...	.....acre-feet...	392,297
7.0 to 7.9 acre-feet per acre.....organizations...	...	30,000 to 99,999 acre-feet.....organizations...	6
.....acres irrigated...	...	.....acre-feet...	335,417
8.0 to 9.9 acre-feet per acre.....organizations...	...	100,000 or more acre-feet.....organizations...	2
.....acres irrigated...	...	.....acre-feet...	260,251
10.0 or more acre-feet per acre.....organizations...	...		
.....acres irrigated...	...	Size of organization (acre-feet of water conveyed):	
		None.....organizations...	...
SIZE OF ORGANIZATION		1 to 299 acre-feet.....organizations...	1
Size of organization (number of farm irrigation water users served directly):		.....acre-feet...	298
None.....organizations...	1	300 to 999 acre-feet.....organizations...	4
1 to 3.....organizations...	6	.....acre-feet...	2,991
.....water users...	16		
4 to 9.....organizations...	6	1,000 to 2,999 acre-feet.....organizations...	12
.....water users...	36	.....acre-feet...	20,737
10 to 29.....organizations...	16	3,000 to 9,999 acre-feet.....organizations...	14
.....water users...	283	.....acre-feet...	85,029
30 to 99.....organizations...	18		
.....water users...	1,129	10,000 to 29,999 acre-feet.....organizations...	22
100 to 299.....organizations...	13	.....acre-feet...	408,984
.....water users...	2,052	30,000 to 99,999 acre-feet.....organizations...	10
300 to 999.....organizations...	6	.....acre-feet...	507,006
.....water users...	2,943	100,000 or more acre-feet.....organizations...	5
1,000 or more.....organizations...	2	.....acre-feet...	1,134,926
.....water users...	3,027		

State Table 3.—LAND IRRIGATED BY SOURCE OF WATER, BY DRAINAGE BASINS: CENSUS OF 1959

Item (For definitions and explanations, see text)	Nebraska, total	Item (For definitions and explanations, see text)	Nebraska, total
Total acres irrigated.....farms reporting...	18,936	LAND IRRIGATED, BY SOURCE OF WATER TO INDIVIDUAL FARMS, 1959—Continued	
acres...	2,077,926	Surface sources on farm.....farms reporting...	1,702
Acres irrigated by sprinklers.....farms reporting...	3,755	acres...	99,136
acres...	226,468	Surface sources on farm only.....farms reporting...	1,089
Sprinklers only.....farms reporting...	2,005	acres...	69,774
acres...	157,329	Irrigation organization sources.....farms reporting...	4,841
		acres...	533,761
LAND IRRIGATED, BY SOURCE OF WATER TO INDIVIDUAL FARMS, 1959		Irrigation organizations sources only.....farms reporting...	3,702
Ground water sources on farm.....farms reporting...	14,093	acres...	416,847
acres...	1,443,029	Both farm ground water sources and surface sources.....farms reporting...	546
Ground water sources on farm only....farms reporting...	12,461	acres...	72,256
acres...	1,304,336	Both irrigation organization and farm ground water or farm surface sources.....farms reporting...	1,140
		acres...	214,713

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950

Item (For definitions and explanations, see text)	Nebraska, total						
	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users	
Irrigation organizations.....organizations 1959...	68	9	17	40	...	9	2
1949...	68	11	15	39	2	3	1
Service area, 1959:							
Area served, as reported							
by organizations.....acres...	858,969	(D)	105,816	703,846	...	252,723	(D)
Area irrigated, as reported							
by organizations.....acres...	706,339	(D)	64,742	600,265	...	240,028	(D)
Water users served, 1959, total.....water users...	9,259	(D)	825	7,861	...	3,324	(D)
Farm irrigation water users.....water users...	9,225	(D)	791	7,861	...	3,324	(D)
Residential water users.....water users...	34	...	34	...	...	...	...
Other water users.....water users...	...	...	...	...	...	...	...
TYPE OF SERVICE, 1959							
All water directly from surface and ground							
water sources.....organizations...	62	8	16	36	...	6	2
Total water conveyed.....acre-feet...	1,858,915	(D)	163,054	1,614,035	...	602,468	(D)
Water delivered.....acre-feet...	1,062,435	(D)	115,385	895,836	...	295,522	(D)
To farm and residential users							
only.....organizations...	57	8	16	31	...	3	2
acre-feet...	665,788	(D)	115,385	499,189	...	76,498	(D)
To farm and residential users and other							
irrigation organizations.....organizations...	4	...	...	4	...	2	...
Water to farm and residential							
users.....acre-feet...	309,536	...	309,536	...	...	177,599	...
Water to other irrigation							
organizations.....acre-feet...	76,733	...	76,733	...	...	31,047	...
To other irrigation organizations							
only.....organizations...	1	...	...	1	...	1	...
acre-feet...	10,378	...	...	10,378	...	10,378	...
Part of water from other							
organizations.....organizations...	3	1	1	1	...	1	...
Total water conveyed.....acre-feet...	35,919	(D)	3,492	31,047	...	31,047	...
From surface and ground water							
sources.....acre-feet...	2,577	(D)	1,397	...	...	...	...
From other irrigation organizations.....acre-feet...	33,342	(D)	2,095	31,047	...	31,047	...
Water delivered.....acre-feet...	3,956	(D)	2,852	...	...	...	...
To farm and residential users							
only.....organizations...	2	1	...	1	...	1	...
acre-feet...	1,104	(D)	...	...	...	...	...
To farm and residential users and other							
irrigation organizations.....organizations...	1	...	1	...	...	...	...
Water to farm and residential							
users.....acre-feet...	2,852	...	2,852	...	...	...	...
Water to other irrigation							
organizations.....acre-feet...	...	...	...	...	...	...	...
To other irrigation organizations							
only.....organizations...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
All of water from other organizations.....organizations...	3	...	...	3	...	2	...
Total water conveyed.....acre-feet...	199,012	...	...	199,012	...	188,634	...
Water delivered.....acre-feet...	116,414	...	...	116,414	...	107,842	...
To farm and residential users							
only.....organizations...	3	...	...	3	...	2	...
acre-feet...	116,414	...	116,414	...	...	107,842	...
To farm and residential users and other							
irrigation organizations.....organizations...	...	...	...	...	...	...	...
Water to farm and residential							
users.....acre-feet...	...	...	...	...	...	...	...
Water to other irrigation							
organizations.....acre-feet...	...	...	...	...	...	...	...
To other irrigation organizations							
only.....organizations...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
No water conveyed.....organizations...	...	...	...	...	...	...	...
WATER FROM OTHER SOURCES							
Organizations reporting no water from other							
sources used on the land served by the							
organization.....organizations...	62	8	15	38	...	7	1
acres served...	848,109	(D)	97,391	730,174	...	252,723	(D)
acres irrigated...	687,083	(D)	56,925	611,267	...	240,028	(D)
water delivered to farms (acre-feet)...	1,059,054	(D)	106,912	923,393	...	361,939	(D)
acre-feet per acre...	1.5	(D)	1.9	1.5	...	1.5	(D)
Organizations reporting water from other							
sources used on land served by the							
organization.....organizations...	5	1	2	1	...	...	1
acres served...	44,769	(D)	9,518	6,488	...	...	(D)
acres irrigated...	37,839	(D)	8,910	6,488	...	...	(D)
water delivered to farms (acre-feet)...	70,393	(D)	13,392	33,432	...	...	(D)
acre-feet per acre...	1.9	(D)	1.5	5.2	...	...	(D)
NEW CAPITAL INVESTMENT, 1950-1959							
Expenditures for additional new works and							
equipment for irrigation and drainage,							
January 1, 1950-December 31, 1959.....organizations...	43	5	10	26	...	8	2
By U. S. B. R. dollars...	10,396,729	...	...	10,396,729	...	10,396,729	...
By water users organizations.....dollars...	3,442,811	(D)	48,841	3,369,120	...	2,005,923	(D)

See footnote at end of table.

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

Nebraska, total							
Item (For definitions and explanations, see text)	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users	
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
Total entering conveyance systems.....organizations... acre-feet...	68 2,006,735	9 (D)	17 166,546	40 1,757,183	...	8 745,556	2 (D)
From another drainage basin.....organizations... acre-feet...	4 550,515	...	2 13,524	...	...	2 536,991	...
From drainage basin.....D. B. No.....	...	...	...	536,991	...	...	...
From sources within basin.....organizations... acre-feet...	62 1,456,620	9 (D)	15 153,022	36 1,220,192	...	6 208,565	2 (D)
Surface water.....organizations... acre-feet...	62 1,452,443	9 (D)	15 153,022	36 1,216,415	...	6 208,565	2 (D)
Ground water.....organizations... acre-feet...	1 3,777	...	...	1 3,777	...	...	...
From other organizations in the basin.....organizations receiving... acre-feet...	4 87,111	1 (D)	...	3 86,911	...	2 76,533	...
Total leaving conveyance systems.....organizations... acre-feet...	68 2,006,735	9 (D)	17 166,546	40 1,756,983	...	8 780,664	2 (D)
Conveyance loss in basin.....organizations... acre-feet...	67 879,994	9 (D)	17 48,309	39 800,797	...	8 387,678	2 (D)
Conveyed to another drainage basin.....organizations... acre-feet...	1 31,047	...	...	1 31,047	...	1 31,047	...
To drainage basin number.....D. B. No.....	...	...	...	...	...	...	...
Delivered for use in the basin.....organizations... acre-feet...	66 1,095,694	9 (D)	17 118,237	38 925,139	...	7 361,939	2 (D)
To farm irrigation water users.....organizations... acre-feet...	66 1,095,537	9 (D)	17 118,080	38 925,139	...	7 361,939	2 (D)
To domestic water users.....organizations... acre-feet...	1 157	...	1 157	...	...	...	...
For other use.....organizations... acre-feet...	...	...	...	...	...	...	...
Delivered to other irrigation organizations.....organizations delivering... acre-feet...	4 87,111	...	...	4 87,111	...	2 43,425	...
SIZE OF ORGANIZATION, 1959							
Size of organization (number of farm irrigation water users):							
None.....organizations...	1	(D)	...	1	...	1	(D)
1 to 3 water users.....organizations...	6	(D)	2	...	...	...	(D)
4 to 9 water users.....organizations...	6	(D)	2	1	...	...	(D)
10 to 29 water users.....organizations...	16	(D)	7	7	...	...	(D)
30 to 99 water users.....organizations...	18	(D)	3	14	...	1	(D)
100 to 299 water users.....organizations...	13	(D)	3	10	...	3	(D)
300 to 999 water users.....organizations...	6	(D)	...	5	...	3	(D)
1,000 or more water users.....organizations...	2	(D)	...	2	...	1	(D)
Size of organization (acre-feet of water delivered directly to farms):							
None.....organizations...	1	(D)	...	1	...	...	(D)
1 to 299 acre-feet.....organizations...	1	(D)	1	...	...	1	(D)
300 to 999 acre-feet.....organizations...	5	(D)	3	...	...	...	(D)
1,000 to 2,999 acre-feet.....organizations...	14	(D)	5	4	...	...	(D)
3,000 to 9,999 acre-feet.....organizations...	18	(D)	5	11	...	...	(D)
10,000 to 29,999 acre-feet.....organizations...	21	(D)	2	17	...	5	(D)
30,000 to 99,999 acre-feet.....organizations...	6	(D)	1	5	...	2	(D)
100,000 or more acre-feet.....organizations...	2	(D)	...	2	...	1	(D)
Size of organization (acre-feet of water conveyed):							
None.....organizations...	...	...	...	...	...	...	...
1 to 299 acre-feet.....organizations...	1	(D)	1	...	...	...	(D)
300 to 999 acre-feet.....organizations...	4	(D)	2	...	...	...	(D)
1,000 to 2,999 acre-feet.....organizations...	12	(D)	5	2	...	...	(D)
3,000 to 9,999 acre-feet.....organizations...	14	(D)	2	10	...	...	(D)
10,000 to 29,999 acre-feet.....organizations...	22	(D)	5	16	...	3	(D)
30,000 to 99,999 acre-feet.....organizations...	10	(D)	2	7	...	4	(D)
100,000 or more acre-feet.....organizations...	5	(D)	...	5	...	2	(D)

D Data not shown to avoid disclosure of information for individual organizations.

State Table 5.—NUMBER OF IRRIGATION ORGANIZATIONS, TYPE OF SERVICE, NEW CAPITAL INVESTMENT, AND WATER CONVEYED, BY SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUS OF 1959

Item (For definitions and explanations, see text)	Nebraska, total			
	Size of organization, by total water conveyed			
	0-999 acre-feet	1,000-9,999 acre-feet	10,000-99,999 acre-feet	100,000 or more acre-feet
1 Number of organizations.....organizations...	5	26	32	5
TYPE OF SERVICE				
2 All water directly from surface and ground sources.....organizations...	5	25	28	4
3 Total water conveyed.....acre-feet...	3,289	104,386	792,857	958,383
4 Water delivered.....acre-feet...	2,749	81,507	551,966	426,213
5 To farm and residential users only.....organizations...	5	25	25	2
6 To farm and residential users and other irrigation organizations.....acre-feet...	2,749	81,507	447,464	134,068
7 To farm and residential users and other irrigation organizations.....organizations...	...	...	2	2
8 Water to farm and residential users.....acre-feet...	...	...	62,877	246,659
9 Water to other irrigation organizations.....acre-feet...	...	...	31,247	45,486
10 To other irrigation organizations only.....organizations...	...	...	1	...
11 To other irrigation organizations only.....acre-feet...	...	...	10,378	...
12 Part of water from other organizations.....organizations...	...	1	2	...
13 Total water conveyed.....acre-feet...	...	1,380	34,539	...
14 From surface and ground water sources.....acre-feet...	...	1,180	1,397	...
15 From other irrigation organizations.....acre-feet...	...	200	33,142	...
16 Water delivered.....acre-feet...	...	1,104	2,852	...
17 To farm and residential users only.....organizations...	...	1	...	...
18 To farm and residential users and other irrigation organizations.....acre-feet...	...	1,104	...	...
19 To farm and residential users and other irrigation organizations.....organizations...	...	...	1	...
20 Water to farm and residential users.....acre-feet...	...	...	2,852	...
21 Water to other irrigation organizations.....acre-feet...	...	...	...	...
22 To other irrigation organizations only.....organizations...	...	...	...	...
23 To other irrigation organizations only.....acre-feet...	...	...	...	...
24 All of water from other organizations.....organizations...	...	...	2	1
25 Total water conveyed.....acre-feet...	...	...	55,864	143,148
26 Water delivered.....acre-feet...	...	...	32,052	84,362
27 To farm and residential users only.....organizations...	...	...	2	1
28 To farm and residential users and other irrigation organizations.....acre-feet...	...	...	32,052	84,362
29 To farm and residential users and other irrigation organizations.....organizations...	...	...	...	...
30 Water to farm and residential users.....acre-feet...	...	...	...	...
31 Water to other irrigation organizations.....acre-feet...	...	...	...	...
32 To other irrigation organizations only.....organizations...	...	...	...	...
33 To other irrigation organizations only.....acre-feet...	...	...	...	...
34 No water conveyed.....organizations...	...	...	...	...
WATER FROM OTHER SOURCES				
35 Organizations reporting no water from other sources used on land served by the organization.....organizations...	5	25	27	5
36 acres served.....acres served...	6,550	54,533	443,809	343,217
37 acres irrigated.....acres irrigated...	4,325	45,277	295,017	342,464
38 Organizations reporting water from other sources used on land served by the organization.....organizations...	...	1	4	...
39 acres served.....acres served...	...	441	44,328	...
40 acres irrigated.....acres irrigated...	...	441	37,398	...
NEW CAPITAL INVESTMENT, 1950-1959				
41 Expenditures for additional new works and equipment for irrigation and drainage, January 1, 1950-December 31, 1959.....organizations...	2	13	25	3
42 dollars.....dollars...	7,639	62,699	10,689,477	3,079,735
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959				
43 Total entering conveyance systems in basin.....organizations...	5	26	32	5
44 From another drainage basin.....acre-feet...	3,289	105,566	796,349	1,101,531
45 From another drainage basin.....organizations...	2	...	2	2
46 From Drainage Basin number.....D. B. No. ....	...	...	13,524	536,991
47 From natural sources within basin.....organizations...	5	26	4	...
48 Surface water.....acre-feet...	3,289	105,566	782,825	564,540
49 Surface water.....organizations...	5	26	27	...
50 Ground water.....acre-feet...	3,289	105,566	782,825	560,763
51 Ground water.....organizations...	...	...	1	...
52 From other organizations in the basin.....acre-feet...	...	...	3,777	...
53 From other organizations in the basin.....organizations receiving...	...	200	86,911	...
54 From other organizations in the basin.....acre-feet...	...	...	3	...
55 Total leaving conveyance systems.....organizations...	5	26	32	5
56 Conveyance loss in basin.....acre-feet...	3,289	105,766	841,635	1,056,045
57 Conveyance loss in basin.....organizations...	5	26	31	...
58 Conveyed to another drainage basin.....acre-feet...	540	23,155	265,343	590,956
59 Conveyed to another drainage basin.....organizations...	...	...	1	...
60 Delivered for use in the basin.....acre-feet...	...	...	31,047	...
61 To drainage basin number.....D. B. No. ....	...	...	...	...
62 Delivered for use in the basin.....organizations...	5	26	30	...
63 To farm irrigation water users.....acre-feet...	2,749	82,611	545,245	465,089
64 To farm irrigation water users.....organizations...	5	26	5	...
65 To residential water users.....acre-feet...	2,749	82,611	545,088	465,089
66 To residential water users.....organizations...	...	...	1	...
67 For other use.....acre-feet...	...	...	157	...
68 For other use.....organizations...	...	...	...	...
69 Delivered to other irrigation organizations.....acre-feet...	...	...	3	1
70 Delivered to other irrigation organizations.....organizations delivering...	...	...	41,625	45,486
71 Delivered to other irrigation organizations.....acre-feet...	...	...	...	...
AVERAGE DELIVERY OF IRRIGATION WATER PER ACRE, 1959				
72 Per acre irrigated, as reported by irrigation organization:				
73 All organizations.....acre-feet...	0.6	1.8	1.7	1.4
74 Organizations reporting no water from other sources used on land served by the organization.....organizations...	5	25	27	5
75 acres irrigated.....acre-feet...	0.6	1.8	1.7	1.4

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IRRIGATION OF AGRICULTURAL LANDS

State Table 1.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS,

Item (For definitions and explanations, see text)	The State	North Pacific Coast, total	Snake River Weiser, Idaho to American Falls and Northwest Great Basin (I-F, I-O, and III-A)	Great Basin, total	Humboldt River (III-B)					
					Total	Humboldt River direct, Little Humboldt and Reese Rivers (1, 2, 3)	Pine Creek (4)	South Fork (5)	North Fork (6)	Lamoille Creek (7)
1 Total acres irrigated in Census year.....1959...	542,976	30,000	54,000	487,000	129,000	101,000	3,000	8,000	7,000	10,000
2 1949...	722,896	46,904	74,360	648,913	248,840	168,438	9,829	32,123	11,223	27,227
3 Irrigation organizations.....organizations.....1959...	116	1	3	103	13	7	...	4	...	3
4 1949...	197	2	4	141	32	18	...	10	...	4
5 Service area, 1959: Farm area reported served by organizations.....acres 1959...	312,290	(D)	9,800	292,403	55,844	47,447	...	7,360	...	1,037
6 Farm area reported irrigated by organizations.....acres 1959...	263,005	(D)	7,465	243,118	39,088	34,602	...	4,054	...	432
7 Water users served, total.....water users 1959...	3,059	25	68	2,566	183	148	...	29	...	6
8 Farm irrigation water users.....water users 1959...	2,646	25	68	2,344	183	148	...	29	...	6
9 Residential water users.....water users 1959...	408	...	...	219	...	...	...	...	...	...
10 Other water users.....water users 1959...	5	...	...	3	...	...	...	...	...	...
11 LAND IRRIGATED BY SOURCE OF WATER, 1959 Ground water sources.....acres...	103,000	3,000	12,000	86,000	31,000	28,000	2,000	1,000	...	...
12 Surface water sources.....acres...	440,000	27,000	42,000	401,000	98,000	73,000	1,000	7,000	7,000	10,000
13 WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959 Total entering conveyance systems in basin.....organizations... acre-feet...	115 1,068,254	1 (D)	3 19,930	102 975,010	13 113,426	7 103,184	...	4 9,154	...	3 1,695
14 From another drainage basin.....organizations... acre-feet...	2 11,240	...	...	1 3,300	...	1 607	...	...	...	...
15 From drainage basin number.....D. B. No....	...	...	...	...	...	III-B-7	...	...	...	...
16 From natural sources within basin.....organizations... acre-feet...	87 1,057,014	1 (D)	3 19,930	75 971,710	13 113,426	7 102,577	...	4 9,154	...	3 1,695
17 Surface water.....organizations... acre-feet...	81 1,026,055	1 (D)	3 19,930	73 953,350	13 113,426	7 102,577	...	4 9,154	...	3 1,695
18 Ground water.....organizations... acre-feet...	7 30,959	...	...	3 18,360	...	...	...	...	...	...
19 From other organizations in the basin.....organizations receiving... acre-feet...	27 189,781	...	...	26 188,071	...	...	...	...	...	...
20 Total leaving conveyance systems.....organizations... acre-feet...	115 1,068,254	1 (D)	3 19,930	102 975,010	13 113,426	7 103,184	...	4 9,154	...	3 1,695
21 Conveyance loss in basin.....organizations... acre-feet...	107 206,933	1 (D)	3 882	96 200,566	11 28,578	5 26,272	...	4 2,218	...	2 88
22 Conveyed to another drainage basin.....organizations... acre-feet...	2 25,999	1 (D)	1 10,000	1 15,999	...	...	...	...	...	1 607
23 To drainage basin number.....D. B. No....	...	...	...	...	...	...	...	...	...	III-E-1a
24 Delivered for use in the basin.....organizations... acre-feet...	113 835,322	1 (D)	3 9,048	100 758,445	13 84,848	7 76,912	...	4 6,936	...	3 1,000
25 To farm irrigation water users.....organizations... acre-feet...	113 824,592	1 (D)	3 9,048	100 749,557	13 84,848	7 76,912	...	4 6,936	...	3 1,000
26 To residential water users.....organizations... acre-feet...	11 1,899	...	...	8 657	...	...	...	...	...	...
27 For other use.....organizations... acre-feet...	3 8,831	...	...	2 8,231	...	...	...	...	...	...
28 Delivered to other irrigation organizations.....organizations delivering... acre-feet...	3 189,781	...	...	2 188,071	...	...	...	...	...	...
29 Average delivery of irrigation water per acre irrigated as reported by organizations...acre-feet...	3.1	(D)	1.2	3.1	2.1	2.2	...	1.7	...	2.3
30 NEW CAPITAL INVESTMENT, 1950-1959 Expenditures for additional new works and equipment for irrigation and drainage, Jan. 1, 1950-Dec. 31, 1959.....organizations... dollars...	51 1,099,001	1 (D)	1 46,500	45 651,549	2 119,000	1 89,000	...	1 30,000	...	...

¹202,637 acre-feet from D. B. No. III-C-2a.

BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950

South Central Great Basin (III-C)													
Total	Honey Lake	Truckee River	Carson River and Railroad, Steptoe, and Goshute Valleys	Walker River			Dixie, Smith Creek, and Fish Lake Valleys	Big Sandy Valley	Southwest Desert	Relston, Monitor, and Hot Creek Valleys	Ruby Valley	Clover Valley	Spring Valley
				Total	Lower Walker River and Walker Lake	West Walker and East Walker Rivers							
	(1)	(2)	(3, 12, 16)		(4a)	(4b, c)	(6)	(7)	(8)	(11)	(14)	(15)	(17)
326,000	1,000	62,000	155,000	70,000	52,000	18,000	6,000	2,000	7,000	1,000	8,000	7,000	7,000
354,541	684	39,282	166,668	82,706	49,843	32,863	6,946	6,427	3,430	4,566	19,033	9,990	14,779
85	...	27	30	32	19	13	...	...	...	...	...	...	...
104	...	29	45	31	16	17	...	...	...	...	...	...	...
230,536	...	35,085	107,314	88,137	60,019	28,118	...	...	...	...	...	...	...
200,342	...	33,359	91,774	75,209	51,695	23,514	...	...	...	...	...	...	...
2,329	...	952	1,036	341	268	73	...	...	...	...	...	...	...
2,107	...	758	1,009	340	267	73	...	...	...	...	...	...	...
219	...	193	25	1	1	...	...	...	...	...	...	...	...
3	...	1	2	...	...	...	...	...	...	...	...	...	...
44,000	...	13,000	16,000	2,000	1,000	1,000	2,000	1,000	7,000	...	1,000	1,000	1,000
282,000	1,000	49,000	139,000	68,000	51,000	17,000	4,000	1,000	...	1,000	7,000	6,000	6,000
84	...	26	30	32	19	13	...	...	...	...	...	...	...
838,386	...	386,983	420,620	233,410	157,596	93,508	...	...	...	...	...	...	...
1	1	...	1	...	...	...	...	...	...	...	...
3,300	205,937	...	17,694	...	...	...	...	...	...	...	...
...	(1)	...	III-C-4c	...	...	...	...	...	...	...	...
57	...	26	29	6	3	4	...	...	...	...	...	...	...
835,086	...	386,983	214,693	233,410	139,902	93,508	...	...	...	...	...	...	...
56	...	26	28	6	3	4	...	...	...	...	...	...	...
832,056	...	386,743	211,903	233,410	139,902	93,508	...	...	...	...	...	...	...
2	...	1	1	...	...	...	...	...	...	...	...	...	...
3,030	...	240	2,790	...	...	...	...	...	...	...	...	...	...
26	26	17	9	...	...	...	...	...	...	...
188,071	188,071	124,782	63,289	...	...	...	...	...	...	...
84	...	26	30	32	19	13	...	...	...	...	...	...	...
838,386	...	386,983	420,620	233,410	157,596	93,508	...	...	...	...	...	...	...
81	...	26	27	30	18	12	...	...	...	...	...	...	...
170,789	...	54,489	94,968	21,332	13,714	7,618	...	...	...	...	...	...	...
...	...	1	...	...	...	1	...	...	...	...	...	...	...
...	...	202,637	...	...	...	17,694	...	...	...	...	...	...	...
...	...	III-C-3b	...	...	...	III-C-4a	...	...	...	...	...	...	...
83	...	26	29	30	18	12	...	...	...	...	...	...	...
667,997	...	129,897	325,662	212,078	143,882	68,196	...	...	...	...	...	...	...
83	...	26	29	30	18	12	...	...	...	...	...	...	...
658,709	...	128,278	318,356	212,075	143,879	68,196	...	...	...	...	...	...	...
8	...	6	1	1	1	...	...	...	...	...	...	...	...
657	...	579	75	3	3	...	...	...	...	...	...	...	...
2	...	1	2	...	...	...	...	...	...	...	...	...	...
8,231	...	1,000	7,231	...	...	...	...	...	...	...	...	...	...
2	2	2	1	...	...	...	...	...	...	...
188,071	188,071	124,782	63,289	...	...	...	...	...	...	...
3.3	...	3.8	3.5	2.8	2.8	2.9	...	...	...	...	...	...	...
42	...	12	10	21	13	8	...	...	...	...	...	...	...
531,549	...	99,051	205,880	226,618	33,912	192,706	...	...	...	...	...	...	...

IRRIGATION OF AGRICULTURAL LANDS

State Table 1.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY DRAINAGE BASINS:
CENSUSES OF 1959 AND 1950—Continued

Item (For definitions and explanations, see text)	Bonneville Basin (III-D)	Colorado River below Lees Ferry excluding Gila River (IV-B)					
		Total	Colorado River direct (1b)	Virgin River			
				Total	Direct	Muddy River and Pahrump Valley (3b, c)	White River (3d)
1 Total acres irrigated in Census year.....1959...	8,000	26,000	5,000	21,000	2,000	11,000	8,000
2 1949.....	12,076	33,079	2,731	30,348	2,294	16,493	11,561
3 Irrigation organizations.....organizations 1959...	3	12	...	12	3	5	4
4 1949.....	3	14	...	14	3	7	4
5 Service area, 1959:							
6 Farm area reported served by organizations.....acres 1959...	2,223	13,887	...	13,887	2,870	5,680	5,337
7 Farm area reported irrigated by organizations.....acres 1959...	2,223	13,887	...	13,887	2,870	5,680	5,337
8 Water users served, total.....water users 1959...	11	468	...	468	101	315	52
9 Farm irrigation water users.....water users 1959...	11	277	...	277	101	124	52
10 Residential water users.....water users 1959...	...	189	...	189	...	189	...
11 Other water users.....water users 1959...	...	2	...	2	...	2	...
12 LAND IRRIGATED BY SOURCE OF WATER, 1959							
13 Ground water sources.....acres...	2,000	14,000	3,000	11,000	1,000	4,000	6,000
14 Surface water sources.....acres...	6,000	12,000	2,000	10,000	1,000	7,000	2,000
15 WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
16 Total entering conveyance systems in basin.....organizations... acre-feet...	3 20,268	12 76,244	...	12 76,244	3 13,345	5 36,447	4 26,452
17 From another drainage basin.....organizations... acre-feet...	...	1 7,940	...	1 7,940	1 7,940	...	...
18 From drainage basin number.....D. B. No.....	...	...	...	...	...	...	...
19 From natural sources within basin.....organizations... acre-feet...	3 20,268	11 68,304	...	11 68,304	2 5,405	5 36,447	4 26,452
20 Surface water.....organizations... acre-feet...	2 4,938	7 55,705	...	7 55,705	2 5,405	3 32,120	2 18,180
21 Ground water.....organizations... acre-feet...	1 15,330	4 12,999	...	4 12,999	...	2 4,327	2 8,272
22 From other organizations in the basin.....organizations receiving... acre-feet...	...	1 1,710	...	1 1,710	1 1,710	...	...
23 Total leaving conveyance systems.....organizations... acre-feet...	3 20,268	12 76,244	...	12 76,244	3 13,345	5 36,447	4 26,452
24 Conveyance loss in basin.....organizations... acre-feet...	2 527	10 6,157	...	10 6,157	2 2,339	5 2,911	3 907
25 Conveyed to another drainage basin.....organizations... acre-feet...	2 15,999	...	...	...	...	...	...
26 To drainage basin number.....D. B. No.....	...	...	...	...	...	...	...
27 Delivered for use in the basin.....organizations... acre-feet...	2 3,742	12 70,087	...	12 70,087	3 11,006	5 33,536	4 25,545
28 To farm irrigation water users.....organizations... acre-feet...	2 3,742	12 68,245	...	12 68,245	3 11,006	5 31,694	4 25,545
29 To residential water users.....organizations... acre-feet...	...	3 1,242	...	3 1,242	...	3 1,242	...
30 For other use.....organizations... acre-feet...	...	1 600	...	1 600	...	1 600	...
31 Delivered to other irrigation organizations.....organizations delivering... acre-feet...	...	1 1,710	...	1 1,710	1 1,710	...	...
32 Average delivery of irrigation water per acre irrigated as reported by organizations...acre-feet...	1.7	4.9	...	4.9	3.8	5.6	4.8
33 NEW CAPITAL INVESTMENT, 1950-1959							
34 Expenditures for additional new works and equipment for irrigation and drainage, Jan. 1, 1950-Dec. 31, 1959.....organizations... dollars...	1 1,000	5 360,952	...	5 360,952	2 85,000	1 235,952	2 40,000

State Table 2.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950

Item (For definitions and explanations, see text)	Nevada, total	Truckee, Carson, and Walker Rivers	Item (For definitions and explanations, see text)	Nevada, total	Truckee, Carson, and Walker Rivers
		(III-C, 2-4)			(III-C, 2-4)
Irrigation organizations, total			TYPE OF SERVICE, 1959		
number.....organizations 1959...	116	83	All water directly from surface and		
Areas irrigated as reported by			ground water sources.....organizations...	88	56
organizations.....acres 1959...	263,005	199,335	Total water conveyed.....acre-feet...	1,064,385	834,486
directly.....water users 1959...	286,299	219,896	Water delivered.....acre-feet...	834,106	667,006
Farm water users served directly.....water users 1959...	2,621	2,074	To farm and residential		
Total water conveyed.....acre-feet 1959...	1,258,035	1,022,557	users only.....organizations...	86	55
			acre-feet...	629,545	468,825
TYPE OF ORGANIZATION			To farm and residential users and other		
Mutual:			irrigation organizations.....organizations...	2	1
Unincorporated.....organizations 1959...	61	45	users.....acre-feet...	32,384	27,714
1949...	90	61	Water to other irrigation		
Farm area irrigated directly.....acres 1959...	49,199	40,155	organizations.....acre-feet...	172,177	170,467
Farm water users served			To other irrigation organizations		
directly.....water users 1959...	309	254	only.....organizations...	...	...
Total water conveyed.....acre-feet 1959...	151,039	132,446	acre-feet...	...	...
Incorporated.....organizations 1959...	42	31	Part of water from other		
1949...	47	30	organizations.....organizations...	1	...
Farm area irrigated directly.....acres 1959...	79,179	64,874	Total water conveyed.....acre-feet...	5,579	...
Farm water users served			From surface and ground water		
directly.....water users 1959...	977	701	sources.....acre-feet...	3,869	...
Total water conveyed.....acre-feet 1959...	326,731	234,960	From other irrigation		
District.....organizations 1959...	4	3	organizations.....acre-feet...	1,710	...
1949...	4	3	Water delivered.....acre-feet...	4,800	...
Farm area irrigated directly.....acres 1959...	120,327	90,567	To farm and residential		
Farm water users served			users only.....organizations...	1	...
directly.....water users 1959...	1,095	981	acre-feet...	4,800	...
Total water conveyed.....acre-feet 1959...	718,088	621,088	To farm and residential users and other		
U.S. Bureau of Reclamation; projects and stor-			irrigation organizations.....organizations...	...	...
age systems operated by bureau.....organizations 1959...	...	...	Water to farm and residential		
1949...	...	...	users.....acre-feet...	...	...
Farm area irrigated directly.....acres 1959...	...	...	Water to other irrigation		
Farm water users served			organizations.....acre-feet...	...	...
directly.....water users 1959...	...	...	To other irrigation organizations		
Total water conveyed.....acre-feet 1959...	...	...	only.....organizations...	...	...
U. S. Bureau of Reclamation; operated			acre-feet...	...	...
by water users.....organizations 1959...	4	3	All of water from other		
1949...	NA	NA	organizations.....organizations...	26	26
Farm area irrigated directly.....acres 1959...	107,655	77,895	Total water conveyed.....acre-feet...	188,071	188,071
Farm water users served			Water delivered.....acre-feet...	177,366	177,366
directly.....water users 1959...	1,066	952	To farm and residential		
Total water conveyed.....acre-feet 1959...	501,043	404,043	users only.....organizations...	25	25
U. S. Bureau of Indian Affairs.....organizations 1959...	8	3	acre-feet...	159,762	159,762
1949...	14	8	To farm and residential users and other		
Farm area irrigated directly.....acres 1959...	(D)	(D)	irrigation organizations.....organizations...	...	...
Farm water users served			Water to farm residential		
directly.....water users 1959...	(D)	(D)	users.....acre-feet...	...	...
Total water conveyed.....acre-feet 1959...	(D)	(D)	Water to other irrigation		
Commercial.....organizations 1959...	1	1	organizations.....acre-feet...	...	...
1949...	2	2	To other irrigation organizations		
Farm area irrigated directly.....acres 1959...	(D)	(D)	only.....organizations...	1	1
Farm water users served			acre-feet...	17,604	17,604
directly.....water users 1959...	(D)	(D)	No water conveyed.....organizations...	1	1
Total water conveyed.....acre-feet 1959...	(D)	(D)			
State.....organizations 1959...	...	...	WATER FROM OTHER SOURCES		
1949...	...	...	Organizations reporting no water from		
Farm area irrigated directly.....acres 1959...	...	...	other sources used on land served		
Farm water users served			by the organization.....organizations...	112	80
directly.....water users 1959...	...	...	acres served...	323,174	230,182
Total water conveyed.....acre-feet 1959...	...	...	acres irrigated...	273,889	200,228
City.....organizations 1959...	...	...	Water delivered to farms.....acre-feet...	855,353	660,531
1949...	...	...	acre-feet per acre...	3.1	3.3
Farm area irrigated directly.....acres 1959...	...	...	Organizations reporting water from other		
Farm water users served			sources used on land served by the		
directly.....water users 1959...	...	...	organization.....organizations...	2	1
Total water conveyed.....acre-feet 1959...	...	...	acres served...	439	307
			acres irrigated...	439	307
			Water delivered to farms.....acre-feet...	1,370	1,113
			acre-feet per acre...	3.1	3.6

D Data not shown to avoid disclosure of information for individual organizations.
NA Not available.

Item (For definitions and explanations, see text)	Nevada, total	Item (For definitions and explanations, see text)	Nevada, total
Total acres irrigated.....farms reporting...	2,110	LAND IRRIGATED, BY SOURCE OF WATER TO INDIVIDUAL FARMS, 1959—Continued	
acres...	542,976	Surface sources on farm.....farms reporting...	480
Acres irrigated by sprinklers.....farms reporting...	91	acres...	199,311
acres...	4,473	Surface sources on farm only.....farms reporting...	368
Sprinklers only.....farms reporting...	37	acres...	143,761
acres...	2,015	Irrigation organization sources.....farms reporting...	1,350
		acres...	243,054
LAND IRRIGATED, BY SOURCE OF WATER TO INDIVIDUAL FARMS, 1959		Irrigation organizations sources only.....farms reporting...	1,221
Ground water sources on farm.....farms reporting...	492	acres...	214,231
acres...	100,609	Both farm ground water sources and surface sources.....farms reporting...	8
Ground water sources on farm only...farms reporting...	512	acres...	58,014
acres...	64,995	Both irrigation organization and farm ground water or farm surface sources.....farms reporting...	129
		acres...	61,977

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950

Item (For definitions and explanations, see text)	Nevada, total						
	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users	
Irrigation organizations.....organizations 1959...	116	61	42	4	...	4	9
1949...	157	90	47	4	...	NA	16
Service area, 1959:							
Area served, as reported							
by organizations.....acres...	312,290	61,592	84,123	146,117	...	133,445	20,458
Area irrigated, as reported							
by organizations.....acres...	263,005	49,199	79,179	120,327	...	107,655	14,300
Water users served, 1959, total.....water users...	3,059	340	1,357	1,097	...	1,068	265
Farm irrigation water users.....water users...	2,646	309	977	1,095	...	1,066	265
Residential water users.....water users...	408	30	378	...	...	2	...
Other water users.....water users...	5	1	2	2	...	...	...
TYPE OF SERVICE, 1959							
All water directly from surface and ground							
water sources.....organizations...	88	30	27	3	...	2	8
Total water conveyed.....acre-feet...	1,064,385	98,667	202,858	702,303	...	501,043	60,597
Water delivered.....acre-feet...	834,106	86,756	159,320	548,695	...	350,514	39,335
To farm and residential users							
only.....organizations...	86	30	26	2	...	2	8
acre-feet...	629,545	86,756	152,940	350,514	...	350,514	39,335
To farm and residential users and other							
irrigation organizations.....organizations...	2	...	1	1	...	...	...
Water to farm and residential							
users.....acre-feet...	32,384	...	4,670	27,714	...	...	...
Water to other irrigation							
organizations.....acre-feet...	172,177	...	1,710	170,467	...	...	...
To other irrigation organizations							
only.....organizations...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
Part of water from other							
organizations.....organizations...	1	...	1	...	...	...	...
Total water conveyed.....acre-feet...	5,579	...	5,579	...	...	...	...
From surface and ground water							
sources.....acre-feet...	3,869	...	3,869	...	...	...	...
From other irrigation organizations.....acre-feet...	1,710	...	1,710	...	...	...	...
Water delivered.....acre-feet...	4,800	...	4,800	...	...	...	...
To farm and residential users							
only.....organizations...	1	...	1	...	...	...	...
acre-feet...	4,800	...	4,800	...	...	...	...
To farm and residential users and other							
irrigation organizations.....organizations...	...	...	...	...	...	...	...
Water to farm and residential							
users.....acre-feet...	...	...	...	...	...	...	...
Water to other irrigation							
organizations.....acre-feet...	...	...	...	...	...	...	...
To other irrigation organizations							
only.....organizations...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
All of water from other organizations.....organizations...	26	11	13	1	...	...	1
Total water conveyed.....acre-feet...	188,071	52,372	118,294	15,785	...	...	1,620
Water delivered.....acre-feet...	177,366	49,344	112,515	14,207	...	...	1,300
To farm and residential users							
only.....organizations...	25	11	12	1	...	...	1
acre-feet...	159,762	49,344	94,911	14,207	...	...	1,300
To farm and residential users and other							
irrigation organizations.....organizations...	...	...	...	...	...	...	...
Water to farm and residential							
users.....acre-feet...	...	...	...	...	...	...	...
Water to other irrigation							
organizations.....acre-feet...	...	...	...	...	...	...	...
To other irrigation organizations							
only.....organizations...	1	...	1	...	...	...	...
acre-feet...	17,604	...	17,604	...	...	...	...
No water conveyed.....organizations...	1	...	1	...	...	...	...
WATER FROM OTHER SOURCES							
Organizations reporting no water from other							
sources used on the land served by the							
organization.....organizations...	112	59	40	4	...	2	9
acres served...	323,174	62,353	88,023	146,117	...	133,445	26,681
acres irrigated...	273,889	49,960	83,079	120,327	...	107,655	20,523
water delivered to farms (acre-feet)...	855,353	140,640	271,442	392,435	...	349,514	50,836
acre-feet per acre...	3.1	2.8	3.3	3.3	...	2.6	2.5
Organizations reporting water from other							
sources used on land served by the							
organization.....organizations...	2	2	...	...	...	...	...
acres served...	439	439	...	...	...	...	...
acres irrigated...	439	439	...	...	...	...	...
water delivered to farms (acre-feet)...	1,370	1,370	...	...	...	...	...
acre-feet per acre...	3.1	3.1	...	...	...	...	...
NEW CAPITAL INVESTMENT, 1950-1959							
Expenditures for additional new works and							
equipment for irrigation and drainage,							
January 1, 1950-December 31, 1959.....organizations...	51	22	22	4	...	4	3
By U. S. B. R. ....dollars...	...	...	...	...	...	...	...
By water users organizations.....dollars...	1,059,001	56,500	454,911	469,759	...	305,000	77,831

See footnote at end of table.

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

Item (For definitions and explanations, see text)	Nevada, total						
	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users	
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
Total entering conveyance systems.....organizations... acre-feet...	115 1,068,254	61 98,667	41 206,727	4 702,303	...	4 501,043	9 60,557
From another drainage basin.....organizations... acre-feet...	2 11,240	1 3,300	1 7,940	...	...	...	...
From drainage basin.....D. B. No. ....	...	...	...	...	...	...	...
From sources within basin.....organizations... acre-feet...	87 1,057,014	49 95,267	27 198,787	3 702,303	...	4 501,043	8 60,557
Surface water.....organizations... acre-feet...	81 1,026,055	48 94,055	23 171,930	3 702,303	...	4 501,043	7 57,767
Ground water.....organizations... acre-feet...	7 30,959	2 1,312	4 26,857	...	...	1...	...
From other organizations in the basin.....organizations receiving... acre-feet...	27 189,781	11 52,372	14 120,004	1 15,785	...	...	1 1,620
Total leaving conveyance systems.....organizations... acre-feet...	115 1,068,254	61 151,039	41 307,417	4 547,621	...	4 501,043	9 62,177
Conveyance loss in basin.....organizations... acre-feet...	107 206,933	58 14,708	36 34,166	4 147,186	...	4 142,529	...
Conveyed to another drainage basin.....organizations... acre-feet...	2 25,999	...	...	...	...	...	...
To drainage basin number.....D. B. No. ....	...	...	...	...	...	...	...
Delivered for use in the basin.....organizations... acre-feet...	113 835,322	61 136,331	39 297,921	4 400,435	...	4 358,514	9 40,635
To farm irrigation water users.....organizations... acre-feet...	113 824,592	61 136,010	39 255,512	4 392,435	...	4 350,514	9 40,635
To domestic water users.....organizations... acre-feet...	11 1,899	1 90	10 1,809	...	...	...	...
For other use.....organizations... acre-feet...	3 8,831	1 231	1 600	1 8,000	...	1 8,000	...
Delivered to other irrigation organizations.....organizations delivering... acre-feet...	3 189,781	...	2 19,314	1 170,467	...	...	...
SIZE OF ORGANIZATION, 1959							
Size of organization (number of farm irrigation water users):							
None.....organizations... 1 to 3 water users.....organizations... 4 to 9 water users.....organizations... 10 to 29 water users.....organizations... 30 to 99 water users.....organizations... 100 to 299 water users.....organizations... 300 to 999 water users.....organizations... 1,000 or more water users.....organizations...	3 31 42 24 12 3 3 ...	1 29 27 4 1 ...	2 2 13 18 10 2...	...	...	...	...
Size of organization (acre-feet of water delivered directly to farms):							
None.....organizations... 1 to 299 acre-feet.....organizations... 300 to 999 acre-feet.....organizations... 1,000 to 2,999 acre-feet.....organizations... 3,000 to 9,999 acre-feet.....organizations... 10,000 to 29,999 acre-feet.....organizations... 30,000 to 99,999 acre-feet.....organizations... 100,000 or more acre-feet.....organizations...	2 7 20 37 35 13 1 1	...	2 1 3 10 17 9 1...	...	...	...	...
Size of organization (acre-feet of water conveyed):							
None.....organizations... 1 to 299 acre-feet.....organizations... 300 to 999 acre-feet.....organizations... 1,000 to 2,999 acre-feet.....organizations... 3,000 to 9,999 acre-feet.....organizations... 10,000 to 29,999 acre-feet.....organizations... 30,000 to 99,999 acre-feet.....organizations... 100,000 or more acre-feet.....organizations...	1 6 13 43 35 15 1 2	...	1 6 12 27 16 11...	...	...	...	...

NA Not available.

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950-Continued

Item (For definitions and explanations, see text)	Truckee River, Carson River, and Walker River (III-C, 2-4)						
	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users	
Irrigation organizations.....organizations 1959.....	83	45	31	3	...	4	4
Service area, 1959:.....	104	61	30	3	...	NA	10
Area served, as reported							
by organizations.....acres.....	229,289	47,365	69,398	106,484	...	93,812	6,042
Area irrigated, as reported							
by organizations.....acres.....	199,335	40,155	64,874	90,567	...	77,895	3,795
Water users served, 1959, total.....water users.....	2,318	285	801	983	...	954	160
Farm irrigation water users.....water users.....	2,096	254	701	981	...	952	160
Residential water users.....water users.....	219	30	189	2	...
Other water users.....water users.....	3	1	...	2	...	2	...
TYPE OF SERVICE, 1959							
All water directly from surface and ground							
water sources.....organizations.....	56	34	17	2	...	3	1
Total water conveyed.....acre-feet.....	834,486	80,074	116,666	605,303	...	404,043	32,443
Water delivered.....acre-feet.....	667,006	70,924	94,249	477,495	...	279,314	24,338
To farm and residential users							
only.....organizations.....	55	34	17	1	...	2	1
To farm and residential users and other							
irrigation organizations.....organizations.....	468,825	70,924	94,249	279,314	...	279,314	24,338
Water to farm and residential							
users.....acre-feet.....	1
Water to other irrigation							
organizations.....acre-feet.....	27,714	27,714
To other irrigation organizations							
only.....organizations.....	170,467	170,467
Water to farm and residential							
users.....acre-feet.....
To other irrigation organizations							
only.....organizations.....
Water to farm and residential							
users.....acre-feet.....
To other irrigation organizations							
only.....organizations.....
Water to farm and residential							
users.....acre-feet.....
To other irrigation organizations							
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Water to farm and residential							
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only.....organizations.....
Water to farm and residential							
users.....acre-feet.....
To other irrigation organizations							
only.....organizations.....
Water to farm and residential							
users.....acre-feet.....
To other irrigation organizations							
only.....organizations.....
Water to farm and residential							
users.....acre-feet.....
To other irrigation organizations							
only.....organizations.....
Water to farm and residential							
users.....acre-feet.....
To other irrigation organizations							
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Water to farm and residential							
users.....acre-feet.....
To other irrigation organizations							
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Water to farm and residential							
users.....acre-feet.....
To other irrigation organizations							
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Water to farm and residential							
users.....acre-feet.....
To other irrigation organizations							
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Water to farm and residential							
users.....acre-feet.....
To other irrigation organizations							
only.....organizations.....
Water to farm and residential							
users.....acre-feet.....
To other irrigation organizations							
only.....organizations.....
Water to farm and residential							
users.....acre-feet.....
To other irrigation organizations							
only.....organizations.....
Water to farm and residential							
users.....acre-feet.....
To other irrigation organizations							
only.....organizations.....
Water to farm and residential							
users.....acre-feet.....
To other irrigation organizations							

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

Truckee River, Carson River, and Walker River (III-C, 2-4)							
Item (For definitions and explanations, see text)	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users	
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
Total entering conveyance systems.....organizations... acre-feet...	82 834,486	45 80,074	30 116,666	3 605,303	...	1 404,043	4 32,443
From another drainage basin.....organizations... acre-feet...	1 3,300	1 3,300	...	...	...	...	...
From drainage basin.....D. B. No.....	...	...	...	...	...	...	...
From sources within basin.....organizations... acre-feet...	55 831,186	33 76,774	17 116,666	2 605,303	...	1 404,043	3 32,443
Surface water.....organizations... acre-feet...	55 830,946	33 76,534	17 116,666	2 605,303	...	1 404,043	3 32,443
Ground water.....organizations... acre-feet...	1 240	1 240	...	...	...	...	...
From other organizations in the basin.....organizations receiving... acre-feet...	26 188,071	11 52,372	13 118,294	1 15,785	...	...	1 1,620
Total leaving conveyance systems.....organizations... acre-feet...	82 834,486	45 132,446	30 217,356	3 450,621	...	1 404,043	4 34,063
Conveyance loss in basin.....organizations... acre-feet...	79 169,954	44 11,947	28 28,196	3 121,386	...	1 116,729	4 8,425
Conveyed to another drainage basin.....organizations... acre-feet...	...	...	...	...	...	...	...
To drainage basin number.....D. B. No.....	...	...	...	...	...	...	...
Delivered for use in the basin.....organizations... acre-feet...	81 664,532	45 120,499	29 189,160	3 329,235	...	...	4 25,638
To farm irrigation water users.....organizations... acre-feet...	81 655,644	45 120,178	29 188,593	3 321,235	...	1 279,314	4 25,638
To domestic water users.....organizations... acre-feet...	8 657	1 90	7 567	...	...	...	...
For other use.....organizations... acre-feet...	2 8,231	1 231	...	1 8,000	...	1 8,000	...
Delivered to other irrigation organizations..... acre-feet...	2 188,071	...	1 17,604	1 170,467	...	...	...
SIZE OF ORGANIZATION, 1959							
Size of organization (number of farm irrigation water users):							
None.....organizations...	2	...	2	...	...	...	...
1 to 3 water users.....organizations...	18	16	2	...	...	...	...
4 to 9 water users.....organizations...	38	25	11	1	...	...	...
10 to 29 water users.....organizations...	15	3	12	...	...	...	...
30 to 99 water users.....organizations...	7	1	3	...	...	...	...
100 to 299 water users.....organizations...	2	...	1	1	...	1	...
300 to 999 water users.....organizations...	1	...	...	1	...	...	...
1,000 or more water users.....organizations...	...	...	...	...	...	...	...
Size of organization (acre-feet of water delivered directly to farms):							
None.....organizations...	2	...	2	...	...	...	...
1 to 299 acre-feet.....organizations...	4	3	1	...	...	...	...
300 to 999 acre-feet.....organizations...	12	10	2	...	...	...	...
1,000 to 2,999 acre-feet.....organizations...	26	17	7	...	...	...	...
3,000 to 9,999 acre-feet.....organizations...	29	15	13	...	...	...	...
10,000 to 29,999 acre-feet.....organizations...	9	...	6	2	...	...	1
30,000 to 99,999 acre-feet.....organizations...	...	...	...	...	...	...	...
100,000 or more acre-feet.....organizations...	1	...	...	1	...	1	...
Size of organization (acre-feet of water conveyed):							
None.....organizations...	1	...	1	...	...	...	...
1 to 299 acre-feet.....organizations...	3	3	...	...	...	...	...
300 to 999 acre-feet.....organizations...	8	7	1	...	...	...	...
1,000 to 2,999 acre-feet.....organizations...	29	20	7	...	...	...	...
3,000 to 9,999 acre-feet.....organizations...	30	15	14	...	...	...	...
10,000 to 29,999 acre-feet.....organizations...	10	...	8	1	...	...	1
30,000 to 99,999 acre-feet.....organizations...	...	...	...	...	...	...	...
100,000 or more acre-feet.....organizations...	2	...	...	2	...	1	...

NA Not available.

State Table 5.—NUMBER OF IRRIGATION ORGANIZATIONS, TYPE OF SERVICE, NEW CAPITAL INVESTMENT, AND WATER CONVEYED, BY SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUS OF 1959

Item (For definitions and explanations, see text)		Nevada, total				Truckee River, Carson River, and Walker River (III-C, 2-4)			
		Size of organization, by total water conveyed							
		0-999 acre-feet	1,000- 9,999 acre-feet	10,000- 99,999 acre-feet	100,000 or more acre-feet	0-999 acre-feet	1,000- 9,999 acre-feet	10,000- 99,999 acre-feet	100,000 or more acre-feet
1	Number of organizations.....organizations...	20	78	18	...	12	59	10	2
TYPE OF SERVICE									
2	All water directly from surface and ground sources.....organizations...	19	56	13	...	11	38	5	2
3	Total water conveyed.....acre-feet...	9,077	178,734	876,574	...	5,237	133,345	90,601	605,303
4	Water delivered.....acre-feet...	7,799	153,706	672,601	...	4,656	115,919	69,336	477,495
5	To farm and residential users only.....organizations...	19	56	11	...	11	38	5	1
6	To farm and residential users only.....acre-feet...	7,799	153,706	468,040	...	4,656	115,919	69,336	279,314
7	To farm and residential users and other irrigation organizations.....organizations...	...	...	2	...	...	...	...	...
8	Water to farm and residential users.....acre-feet...	...	...	32,364	...	...	...	...	27,704
9	Water to other irrigation organizations.....acre-feet...	...	...	172,177	...	...	...	...	170,467
10	To other irrigation organizations only.....organizations...	...	...	...	...	...	...	...	...
11	To other irrigation organizations only.....acre-feet...	...	...	...	...	...	...	...	...
12	Part of water from other organizations.....organizations...	...	1	...	...	...	...	...	...
13	Total water conveyed.....acre-feet...	...	5,979	...	...	...	...	...	...
14	From surface and ground water sources.....acre-feet...	...	3,869	...	...	...	...	...	...
15	From other irrigation organizations.....acre-feet...	...	1,710	...	...	...	...	...	...
16	Water delivered.....acre-feet...	...	4,800	...	...	...	...	...	...
17	To farm and residential users only.....organizations...	...	...	...	...	...	...	...	...
18	To farm and residential users only.....acre-feet...	...	4,800	...	...	...	...	...	...
19	To farm and residential users and other irrigation organizations.....organizations...	...	...	...	...	...	...	...	...
20	Water to farm and residential users.....acre-feet...	...	...	...	...	...	...	...	...
21	Water to other irrigation organizations.....acre-feet...	...	...	...	...	...	...	...	...
22	To other irrigation organizations only.....organizations...	...	...	...	...	...	...	...	...
23	To other irrigation organizations only.....acre-feet...	...	...	...	...	...	...	...	...
24	All of water from other organizations.....organizations...	...	21	5	...	...	21	5	...
25	Total water conveyed.....acre-feet...	...	106,399	81,672	...	...	106,399	81,672	...
26	Water delivered.....acre-feet...	...	100,550	76,816	...	...	100,550	76,816	...
27	To farm and residential users only.....organizations...	...	21	4	...	...	21	4	...
28	To farm and residential users only.....acre-feet...	...	100,550	59,212	...	...	100,550	59,212	...
29	To farm and residential users and other irrigation organizations.....organizations...	...	...	...	...	...	...	...	...
30	Water to farm and residential users.....acre-feet...	...	...	...	...	...	...	...	...
31	Water to other irrigation organizations.....acre-feet...	...	...	...	...	...	...	...	...
32	To other irrigation organizations only.....organizations...	...	...	1	...	...	...	1	...
33	To other irrigation organizations only.....acre-feet...	...	...	17,604	...	...	...	17,604	...
34	No water conveyed.....organizations...	1	...	...	...	1	...	...	...
WATER FROM OTHER SOURCES									
35	Organizations reporting no water from other sources used on land served by the organization.....organizations...	18	77	17	...	11	58	9	2
36	On land served by the organization.....acres served...	6,918	111,768	204,488	...	1,978	85,989	39,553	102,662
37	On land served by the organization.....acres irrigated...	3,491	94,180	176,218	...	1,978	74,432	37,073	86,745
38	Organizations reporting water from other sources used on land served by the organization.....organizations...	1	1	...	...	...	1	...	...
39	On land served by the organization.....acres served...	132	307	...	...	...	307	...	...
40	On land served by the organization.....acres irrigated...	132	307	...	...	...	307	...	...
NEW CAPITAL INVESTMENT, 1950-1959									
41	Expenditures for additional new works and equipment for irrigation and drainage, January 1, 1950-December 31, 1959.....organizations...	4	32	15	...	4	28	8	2
42	Expenditures for additional new works and equipment for irrigation and drainage, January 1, 1950-December 31, 1959.....dollars...	2,500	210,615	845,886	...	2,500	89,615	212,434	227,000
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959									
43	Total entering conveyance systems in basin.....organizations...	19	78	18	...	11	59	10	2
44	From another drainage basin.....acre-feet...	9,077	182,603	876,574	...	5,237	133,345	90,601	605,303
45	From another drainage basin.....organizations...	...	...	1	...	...	...	...	...
46	From another drainage basin.....acre-feet...	...	3,300	7,940	...	...	3,300	...	...
47	From drainage basin number.....D. B. No. ....	...	...	...	...	...	...	...	...
48	From natural sources within basin.....organizations...	19	56	12	...	11	37	5	2
49	From natural sources within basin.....acre-feet...	9,077	179,303	868,634	...	5,237	130,045	90,601	605,303
50	Surface water.....organizations...	19	51	11	...	11	37	5	2
51	Surface water.....acre-feet...	9,077	163,674	853,304	...	5,237	129,805	90,601	605,303
52	Ground water.....organizations...	...	6	1	...	...	1	...	...
53	Ground water.....acre-feet...	...	15,629	15,330	...	...	240	...	...
54	From other organizations in the basin.....organizations receiving...	...	22	5	...	...	21	5	...
55	From other organizations in the basin.....acre-feet...	...	108,109	81,672	...	...	106,399	81,672	...
56	Total leaving conveyance systems.....organizations...	19	78	18	...	11	59	10	2
57	From another drainage basin.....acre-feet...	9,077	290,712	768,465	...	5,237	239,764	154,669	434,836
58	Conveyance loss in basin.....organizations...	18	73	16	...	10	37	10	2
59	Conveyance loss in basin.....acre-feet...	1,278	30,756	174,899	...	581	23,444	26,121	119,808
60	Conveyance loss in basin.....organizations...	...	1	2	...	...	...	...	...
61	Conveyance loss in basin.....acre-feet...	...	669	25,330	...	...	...	...	...
62	To drainage basin number.....D. B. No. ....	...	...	...	...	...	...	...	...
63	Delivered for use in the basin.....organizations...	19	78	16	...	11	59	9	2
64	Delivered for use in the basin.....acre-feet...	7,799	259,287	568,236	...	4,656	216,300	128,548	315,028
65	To farm irrigation water users.....organizations...	19	78	16	...	11	59	9	2
66	To farm irrigation water users.....acre-feet...	7,799	258,362	558,431	...	4,656	215,547	128,413	307,028
67	To residential water users.....organizations...	...	8	3	...	...	6	...	...
68	To residential water users.....acre-feet...	...	694	1,205	...	...	522	135	...
69	For other use.....organizations...	...	1	2	...	...	1	...	1
70	For other use.....acre-feet...	...	231	8,600	...	...	231	...	8,000
71	Delivered to other irrigation organizations.....organizations delivering...	...	...	3	...	...	...	1	1
72	Delivered to other irrigation organizations.....acre-feet...	...	...	189,781	...	...	...	17,604	170,467
AVERAGE DELIVERY OF IRRIGATION WATER PER ACRE, 1959									
Per acre irrigated, as reported by irrigation organization:									
73	All organizations.....acre-feet...	2.2	2.8	3.4	...	2.4	2.9	3.5	3.5
74	Organizations reporting no water from other sources used on land served by the organization.....organizations...	18	77	17	...	11	58	9	2
75	Organizations reporting no water from other sources used on land served by the organization.....acre-feet...	2.2	2.8	3.3	...	2.4	2.9	3.6	3.5

NEW MEXICO

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IRRIGATION OF AGRICULTURAL LANDS

State Table 1.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS.

Item (For definitions and explanations, see text)	The State	Gulf of Calif- ornia	Colorado River below Lees Ferry, Arizona, total (IV-B and C)	Colorado River above Lees Ferry, Arizona (San Juan River) (IV-D)				
				Total	San Juan River direct	Mancos River	La Plata River	Anas River and Los Pinos River
				(2a)	(2b)	(2c)	(2d)	(2e, f)
1 Total area irrigated in Census year.....1959...	731,835	53,000	28,000	25,000	11,000	...	6,000	8,000
2 1949...	691,476	58,815	21,341	37,474	21,584	...	3,829	12,061
3 Irrigation organizations.....organizations 1959...	447	63	24	39	20	...	7	12
4 1949...	620	88	29	59	33	...	9	17
5 Service area, 1959:								
6 Farm area reported served by organizations.....acres 1959...	462,200	58,360	13,208	45,152	26,730	...	7,800	10,622
7 Farm area reported irrigated by organizations.....acres 1959...	366,086	46,970	13,044	33,926	18,744	...	5,133	10,049
8 Water users served, total.....water users 1959...	23,768	2,504	398	2,106	1,176	...	105	825
9 Farm irrigation water users.....water users 1959...	20,828	1,852	351	1,501	941	...	105	455
10 Residential water users.....water users 1959...	2,910	630	47	583	230	...	...	353
11 Other water users.....water users 1959...	30	22	...	22	5	...	...	17
12 LAND IRRIGATED BY SOURCE OF WATER, 1959								
13 Ground water sources.....acres...	445,652	18,000	18,000	...	...	...	...	...
14 Surface water sources.....acres...	286,183	35,000	10,000	25,000	11,000	...	6,000	8,000
15 WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959								
16 Total entering conveyance systems in basin.....organizations...	446	63	24	39	20	...	7	12
17 1,419,633 acre-feet...	1,419,633	265,192	59,278	205,914	142,356	...	11,089	52,469
18 From another drainage basin.....organizations...	2	2	...	2	1	...	...	1
19 1,903 acre-feet...	1,903	1,903	...	1,903	242	...	...	1,661
20 From drainage basin number.....D. B. No....	...	...	...	...	IV-D-2f	...	...	Colorado IV-D-2f
21 From natural sources within basin.....organizations...	437	60	24	36	18	...	7	11
22 1,417,730 acre-feet...	1,417,730	263,289	59,278	204,011	142,114	...	11,089	50,806
23 Surface water.....organizations...	428	58	24	34	16	...	7	11
24 1,372,752 acre-feet...	1,372,752	262,376	58,381	203,995	142,098	...	11,089	50,806
25 Ground water.....organizations...	26	7	2	2	...	...	...	...
26 44,978 acre-feet...	44,978	913	897	16	16	...	...	...
27 From other organizations in the basin.....organizations receiving...	18	1	...	1	1	...	...	...
28 39,971 acre-feet...	39,971	3,851	...	3,851	3,851	...	...	...
29 Total leaving conveyance systems.....organizations...	446	63	24	39	20	...	7	12
30 1,419,633 acre-feet...	1,419,633	265,192	59,278	205,914	142,356	...	11,089	52,469
31 Conveyance loss in basin.....organizations...	423	61	24	37	18	...	7	12
32 492,142 acre-feet...	492,142	63,548	10,109	53,439	35,135	...	1,386	16,918
33 Conveyed to another drainage basin.....organizations...	...	...	...	...	...	...	...	...
34 1,903 acre-feet...	1,903	1,903	...	1,903	...	...	...	...
35 To drainage basin number.....D. B. No....	...	...	...	...	...	...	...	...
36 Delivered for use in the basin.....organizations...	446	63	24	39	20	...	7	12
37 927,491 acre-feet...	927,491	201,644	49,169	152,475	107,221	...	9,703	35,551
38 To farm irrigation water users.....organizations...	445	63	24	39	20	...	7	12
39 900,617 acre-feet...	900,617	184,457	49,061	135,396	96,673	...	9,703	29,020
40 To residential water users.....organizations...	76	11	3	8	4	...	...	4
41 15,845 acre-feet...	15,845	10,320	108	10,212	8,186	...	...	2,026
42 For other use.....organizations...	13	6	...	6	3	...	...	3
43 11,029 acre-feet...	11,029	6,867	...	6,867	2,362	...	...	4,505
44 Delivered in other irrigation organizations.....organizations delivering...	12	1	...	1	1	...	...	...
45 39,971 acre-feet...	39,971	3,851	...	3,851	3,851	...	...	...
46 Average delivery of irrigation water per acre irrigated as reported by organizations.....acre-feet...	2.5	3.9	3.8	4.0	5.2	...	1.9	2.9
47 NEW CAPITAL INVESTMENT, 1950-1959								
48 Expenditures for additional new works and equipment for irrigation and drainage, Jan. 1, 1950-Dec. 31, 1959.....organizations...	212	26	10	16	6	...	1	9
49 13,666,262 dollars...	13,666,262	261,844	97,030	164,834	53,071	...	1,130	110,613

BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950

Gulf of Mexico excluding Mississippi River	Excluding Rio Grande (V-A)					Rio Grande below Fort Quitman, Texas (Pecos River) (V-B)					
	Total	Colorado River	Brazos River			Total	Sacramento River	Pecos River direct			Gallinas River
			Total	Brazos River direct	Salt Fork			Total	Below Acme	Acme to Alamogordo Dam and above Alamo- gordo Dam	
(5b)	(6b)	(6c)	(1c)	(2b)	(2c, d)	(2g)					
602,000	200,000	71,000	129,000	80,000	49,000	181,000	...	176,000	158,000	18,000	5,000
562,207	98,767	61,931	36,836	36,983	253	196,108	...	190,443	169,283	21,160	5,665
318	58	...	50	23	27	8
450	71	...	61	30	31	10
322,669	65,975	...	58,285	45,432	12,853	7,290
256,427	52,245	...	46,721	34,763	11,958	5,524
19,842	1,821	...	1,708	574	1,134	113
17,675	1,742	...	1,644	549	1,095	98
2,160	73	...	59	22	37	14
7	6	...	5	3	2	1
415,000	199,000	70,000	129,000	80,000	49,000	131,000	...	131,000	121,000	10,000	...
187,000	1,000	1,000	...	...	...	50,000	...	45,000	37,000	8,000	5,000
317	57	...	49	22	27	8
1,001,782	189,559	...	181,831	142,302	39,529	7,728
...
...
...
311	56	...	49	22	27	7
1,001,782	189,559	...	181,831	142,302	39,529	7,728
304	54	...	47	20	27	7
957,717	176,649	...	168,921	129,392	39,529	7,728
19	3	...	3	3	...	...
44,065	12,910	...	12,910	12,910	...	...
13	2	...	1	...	1	1
34,877	665	...	365	...	365	300
317	57	...	49	22	27	8
1,001,782	189,559	...	181,831	142,302	39,529	7,728
296	54	...	46	20	26	8
366,159	47,938	...	46,617	41,406	5,211	1,321
2
480
...
316	57	...	49	22	27	8
635,143	141,621	...	135,214	100,896	34,318	6,407
315	57	...	49	22	27	8
627,060	138,504	...	132,607	98,860	33,747	5,897
52	8	...	7	2	5	1
4,821	191	...	164	43	121	27
6	5	...	4	2	2	1
3,262	2,926	...	2,443	1,993	450	483
7	2	...	1	...	1	1
34,877	665	...	365	...	365	300
2.4	2.7	...	2.8	2.8	2.8	1.1
197	34	...	31	14	17	3
12,788,762	1,381,697	...	1,294,797	1,241,705	53,092	86,900

IRRIGATION OF AGRICULTURAL LANDS

State Table 1.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS,

	Item (For definitions and explanations, see text)	Rio Grande above Fort Quitman, Texas (V-C)									
		Total	Rio Grande direct				Mimbrea Valley	Tularosa and Estancia Valleys	Rio Puerco	Tesuque Creek	Santa Cruz River
			Total	Below San Marcial	San Marcial to Otowi Bridge	Above Otowi Bridge					
1	Total acres irrigated in Census year.....1959.....	221,000	137,000	87,000	41,000	9,000	33,000	22,000	3,000	3,000	1,000
2	1949.....	267,332	166,780	88,645	63,006	15,129	24,738	20,931	10,696	2,412	3,710
3	Irrigation organizations.....organizations 1959.....	260	52	4	15	33	15	7	19	28	20
4	1949.....	379	72	6	23	43	15	10	25	30	36
5	Service area, 1959: Farm area reported served by organizations.....acres 1959.....	257,094	197,366	102,895	70,442	24,029	2,097	3,676	7,181	3,815	1,577
6	Farm area reported irrigated by organizations.....acres 1959.....	204,222	159,808	85,639	56,251	17,918	1,475	2,922	3,886	2,608	1,505
7	Water users served, total.....water users 1959.....	18,021	12,300	3,276	6,086	2,938	104	417	313	651	465
8	Farm irrigation water users.....water users 1959.....	15,933	11,117	2,637	5,711	2,769	104	193	313	621	465
9	Residential water users.....water users 1959.....	2,087	1,182	639	375	168	...	224	...	30	...
10	Other water users.....water users 1959.....	1	1	...	...	1	...	...	...	...	...
	LAND IRRIGATED BY SOURCE OF WATER, 1959										
11	Ground water sources.....acres.....	85,000	33,000	21,000	11,000	1,000	31,000	19,000	1,000	...	...
12	Surface water sources.....acres.....	136,000	104,000	66,000	30,000	8,000	2,000	3,000	2,000	3,000	1,000
	WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959										
13	Total entering conveyance systems in basin.....organizations... acre-feet.....	260 812,223	52 723,780	4 387,359	15 301,522	33 34,899	15 3,700	7 7,313	19 7,418	28 6,883	20 13,022
14	From another drainage basin.....organizations... acre-feet.....	...	1 7,500	...	...	1 7,500	...	...	...	...	...
15	From drainage basin number.....D. B. No....	...	...	...	...	IV-F-1	...	...	...	...	...
16	From natural sources within basin.....organizations... acre-feet.....	255 812,223	49 716,280	4 387,359	14 301,522	31 27,399	15 3,700	7 7,313	19 7,418	28 6,883	20 13,022
17	Surface water.....organizations... acre-feet.....	250 781,068	48 688,260	3 386,039	14 275,022	31 27,199	15 3,700	5 5,940	17 6,649	28 6,070	20 13,022
18	Ground water.....organizations... acre-feet.....	16 31,155	3 28,020	1 1,320	1 26,500	1 200	...	3 1,373	3 769	6 813	...
19	From other organizations in the basin.....organizations receiving... acre-feet.....	11 34,212	8 32,075	...	7 31,275	1 800	...	...	...	...	...
20	Total leaving conveyance systems.....organizations... acre-feet.....	260 812,223	52 723,780	4 387,359	15 301,522	33 34,899	15 3,700	7 7,313	19 7,418	28 6,883	20 13,022
21	Conveyance loss in basin.....organizations... acre-feet.....	242 318,221	49 301,476	4 176,140	15 118,802	30 6,534	15 631	7 1,521	19 1,438	27 1,131	17 696
22	Conveyed to another drainage basin.....organizations... acre-feet.....	1 480	...	...	...	...	...	...	...	...	1 7,500
23	To drainage basin number.....D. B. No....	...	...	...	...	...	...	...	...	...	IV-E-1
24	Delivered for use in the basin.....organizations... acre-feet.....	259 493,522	52 422,304	4 211,219	15 182,720	33 28,365	15 3,069	7 5,792	19 5,980	28 5,752	19 4,826
25	To farm irrigation water users.....organizations... acre-feet.....	258 488,556	52 418,665	4 209,670	15 181,680	33 27,315	15 3,069	7 5,261	19 5,980	28 5,687	19 4,826
26	To residential water users.....organizations... acre-feet.....	44 4,630	19 3,303	1 1,569	8 1,040	10 714	...	3 551	...	2 65	...
27	For other use.....organizations... acre-feet.....	1 336	1 336	...	...	1 336	...	...	...	...	...
28	Delivered to other irrigation organizations.....organizations delivering... acre-feet.....	5 34,212	2 32,075	...	1 31,275	1 800	...	...	...	...	...
29	Average delivery of irrigation water per acre irrigated as reported by organizations...acre-feet...	2.4	2.6	2.4	3.2	1.5	2.1	1.8	1.5	2.2	3.2
	NEW CAPITAL INVESTMENT, 1950-1959										
30	Expenditures for additional new works and equipment for irrigation and drainage, Jan. 1, 1950-Dec. 31, 1959.....organizations... dollars.....	123 11,407,065	19 10,627,499	...	3 10,584,300	16 43,199	3 6,200	1 18,000	8 15,325	20 39,288	4 1,095

BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Continued

Rio Grande above Fort Quitman, Texas (V-C)—Continued						Arkansas River (VI-B)									
Rio Chama	Embudo River	Rio Pueblo de Taos	Costilla Creek	San Antonio and Conejos Rivers	Mississippi River	Mississippi River, excluding Arkansas River and Red River direct below Lake Texhoma (VI-A)	Total	Total	Canadian River direct	Mora River			Canadian River	Cimarron River	Purgatoire River
(7)	(8)	(9)	(10)	(11)					(2a, b)		(2c)	(2d)	(2e)	(3)	(6)
13,000	3,000	4,000	2,000	...	77,000	2,000	75,000	71,000	49,000	7,000	7,000	...	15,000	4,000	...
17,986	6,421	11,061	2,304	293	70,454	...	70,454	65,169	30,705	14,079	11,583	2,496	20,385	5,285	...
48	35	27	11	...	67	...	67	67	8	58	44	14	4	...	...
113	43	25	9	4	84	...	84	84	7	72	51	21	6	...	...
11,487	15,099	12,431	2,365	...	81,171	...	81,171	81,171	57,551	17,280	15,897	1,383	6,340	...	...
10,848	11,537	7,738	1,895	...	62,649	...	62,649	62,649	46,918	11,646	10,595	1,051	4,085	...	...
861	1,165	1,576	169	...	1,422	...	1,422	1,422	507	891	785	106	24	...	...
674	1,105	1,190	151	...	1,301	...	1,301	1,301	507	770	680	90	24	...	...
187	60	386	18	...	120	...	120	120	...	120	104	16	...	...	...
...	...	...	...	...	1	...	1	1	...	1	1	...	...	...	...
1,000	...	...	...	...	13,000	2,000	11,000	10,000	10,000	...	...	...	...	1,000	...
12,000	3,000	4,000	2,000	...	64,000	...	64,000	61,000	39,000	7,000	7,000	...	15,000	3,000	...
47	35	27	11	...	67	...	67	67	8	58	44	14	4	...	...
25,700	17,803	10,493	3,161	...	153,139	...	153,139	153,139	120,974	23,772	22,779	1,925	12,317	...	...
...	...	...	...	...	1	...	1	1	1	1	1	1	1	...	...
...	...	...	...	...	480	...	480	480	3,721	480	480	432	203	...	...
...	...	...	...	...	...	...	...	...	...	...	V-C-9	VI-B-2c	VI-B-2b	...	...
47	33	26	11	...	66	...	66	66	7	56	43	13	3	...	...
25,700	17,803	10,943	3,161	...	152,659	...	152,659	152,659	117,253	23,292	21,799	1,493	12,114	...	...
47	33	26	11	...	66	...	66	66	7	56	43	13	3	...	...
25,520	17,803	10,943	3,161	...	152,659	...	152,659	152,659	117,253	23,292	21,799	1,493	12,114	...	...
1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
180	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
...	2	1	...	...	4	...	4	4	...	4	4	...	...	...	...
...	1,437	700	...	...	1,243	...	1,243	1,243	...	1,243	1,243	...	...	...	...
47	35	27	11	...	67	...	67	67	8	58	44	14	4	...	...
25,700	17,803	10,493	3,161	...	153,139	...	153,139	153,139	120,974	23,772	22,779	1,925	12,317	...	...
41	33	23	11	...	66	...	66	66	8	57	43	14	4	...	...
5,776	3,523	1,608	421	...	62,435	...	62,435	62,435	55,651	4,679	4,414	265	2,105	...	...
...	...	1	...	...	...	...	...	...	1	...	1	...	1	...	...
...	...	480	...	...	...	...	...	...	203	...	432	...	3,721	...	...
...	...	V-C-11	...	...	...	...	...	...	...	...	VI-B-2d	...	VI-B-2b	...	...
47	35	26	11	...	67	...	67	67	8	57	44	14	4	...	...
19,924	14,280	8,855	2,740	...	90,704	...	90,704	90,704	65,120	19,033	17,433	1,660	6,491	...	...
47	35	26	10	...	67	...	67	67	8	57	44	14	4	...	...
19,818	14,147	8,406	2,717	...	89,100	...	89,100	89,100	65,120	17,489	15,847	1,642	6,491	...	...
6	5	7	2	...	13	...	13	13	...	13	10	3	...	...	...
106	133	449	23	...	704	...	704	704	...	704	686	18	...	...	...
...	...	...	...	...	1	...	1	1	...	1	1	...	...	...	...
...	...	...	...	...	900	...	900	900	...	900	900	...	...	...	...
...	2	1	...	...	4	...	4	4	...	4	4	...	...	...	...
...	1,437	700	...	...	1,243	...	1,243	1,243	...	1,243	1,243	...	...	...	...
1.8	1.2	1.1	1.4	...	1.4	...	1.4	1.4	1.4	1.5	1.4	1.5	1.6	...	...
30	18	14	7	...	29	...	29	29	5	25	21	4	2	...	...
671,402	18,700	6,906	2,650	...	615,656	...	615,656	615,656	583,370	30,416	28,656	1,760	1,870	...	...

State Table 2.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950

Item (For definitions and explanations, see text)	New Mexico, total	Colorado River above Lees Ferry excluding Green and Gunnison Rivers ^a	Rio Grande below Fort Quitman	Rio Grande above Fort Quitman, Texas	Arkansas River
		(IV-D)	(V-B)	(V-C)	(VI-B)
1 Irrigation organizations, total					
2 number.....organizations 1959...	447	39	58	260	67
1949...	620	59	71	379	84
3 Area irrigated as reported by					
4 organizations.....acres 1959...	366,086	33,926	52,245	204,222	62,649
1949...	384,210	37,398	55,673	223,368	57,140
5 Farm water users served directly.....water users 1959...	20,828	1,501	1,742	15,933	1,301
6 Total water conveyed.....acre-feet 1959...	1,459,604	209,765	190,224	846,435	154,382
TYPE OF ORGANIZATION					
Mutual:					
7 Unincorporated.....organizations 1959...	363	20	45	215	60
8 1949...	485	32	55	314	58
9 Farm area irrigated directly.....acres 1959...	100,798	14,271	8,206	50,621	14,616
10 Farm water users served					
11 directly.....water users 1959...	8,147	507	973	5,539	777
1949...	319,777	79,979	26,269	122,826	31,905
12 Total water conveyed.....acre-feet 1959...					
Incorporated.....organizations 1959...					
13 1949...	97	5	8	39	5
14 Farm area irrigated directly.....acres 1959...	80	4	11	42	25
15 Farm water users served					
16 directly.....water users 1959...	33,680	3,829	(D)	14,785	(D)
1949...					
17 Total water conveyed.....acre-feet 1959...	1,709	209	(D)	1,254	(D)
1949...	68,692	12,573	(D)	29,709	(D)
18 District.....organizations 1959...	11	3	2	4	2
19 1949...	7	1	2	3	...
20 Farm area irrigated directly.....acres 1959...	(D)	9,500	(D)	6,491	(D)
21 Farm water users served					
22 directly.....water users 1959...	(D)	276	(D)	1,590	(D)
1949...	(D)	40,005	(D)	10,913	(D)
23 Total water conveyed.....acre-feet 1959...					
U. S. Bureau of Reclamation; projects and storage systems operated by bureau.....organizations 1959...					
24 1949...	3	...	1	2	...
25 Farm area irrigated directly.....acres 1959...	3	...	1	1	1
26 Farm water users served					
27 directly.....water users 1959...	132,325	...	...	132,325	...
1949...	7,550	...	...	7,550	...
28 Total water conveyed.....acre-feet 1959...	682,987	...	...	682,987	...
U. S. Bureau of Reclamation; operated by water users.....organizations 1959...					
29 1949...	4	...	2	...	2
30 Farm area irrigated directly.....acres 1959...	...	...	...	...	...
31 Farm water users served					
32 directly.....water users 1959...	67,594	...	(D)	...	(D)
1949...	...	...	...	...	...
33 Total water conveyed.....acre-feet 1959...	879	...	(D)	...	(D)
1949...	227,060	...	(D)	...	(D)
U. S. Bureau of Indian Affairs.....organizations 1959...					
34 1949...	12	11	1	...	...
35 Farm area irrigated directly.....acres 1959...	42	22	1	17	...
36 Farm water users served					
37 directly.....water users 1959...	6,712	6,326	386	...	...
1949...	...	...	...	...	...
38 Total water conveyed.....acre-feet 1959...	970	509	61	...	...
1949...	79,170	77,208	1,962	...	...
Commercial.....organizations 1959...					
39 1949...	1	...	1	...	...
40 Farm area irrigated directly.....acres 1959...	...	...	...	...	...
41 Farm water users served					
42 directly.....water users 1959...	(D)	...	(D)	...	...
1949...	(D)	...	(D)	...	...
43 Total water conveyed.....acre-feet 1959...					
State.....organizations 1959...					
44 1949...	...	...	...	...	...
45 Farm area irrigated directly.....acres 1959...	...	...	...	...	...
46 Farm water users served					
47 directly.....water users 1959...	...	...	...	...	...
1949...	...	...	...	...	...
48 Total water conveyed.....acre-feet 1959...	...	...	...	...	...
City.....organizations 1959...					
49 1949...	...	...	...	...	...
50 Farm area irrigated directly.....acres 1959...	2	...	...	2	...
51 Farm water users served					
52 directly.....water users 1959...	...	...	...	...	...
1949...	...	...	...	...	...
53 Total water conveyed.....acre-feet 1959...	...	...	...	...	...

D Data not shown to avoid disclosure of information for individual organizations.

State Table 2.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Continued

Item (For definitions and explanations, see text)	New Mexico, total	Colorado River above Lees Ferry excluding Green and Gunnison Rivers	Rio Grande below Fort Quitman	Rio Grande above Fort Quitman, Texas	Arkansas River
		(IV-D)	(V-B)	(V-C)	(VI-B)
TYPE OF SERVICE, 1959					
1 All water directly from surface and					
2 ground water sources.....organizations...	428	38	55	249	63
3 Total water conveyed.....acre-feet...	1,419,457	205,914	189,306	815,463	149,926
4 Water delivered.....acre-feet...	932,369	147,359	138,522	509,888	87,431
5 To farm and residential					
6 users only.....organizations.....acre-feet...	416	36	53	243	60
7 To farm and residential users and other	708,823	131,949	132,517	309,483	85,705
8 irrigation organizations.....organizations...	12	2	2	6	3
9 Water to farm and residential					
10 users.....acre-feet...	184,379	11,559	5,340	166,193	1,287
11 Water to other irrigation					
12 organizations.....acre-feet...	39,167	3,851	665	34,212	439
13 To other irrigation organizations					
14 only.....organizations.....acre-feet...	...	...	...	...	...
15 Part of water from other					
16 organizations.....organizations.....acre-feet...	11	...	1	6	4
17 Total water conveyed.....acre-feet...	33,004	...	618	27,930	4,456
18 From surface and ground water					
19 sources.....acre-feet...	226	...	253	1-3,240	3,213
20 From other irrigation					
21 organizations.....acre-feet...	32,778	...	365	31,170	1,243
22 Water delivered.....acre-feet...	19,064	...	548	14,900	3,616
23 To farm and residential					
24 users only.....organizations.....acre-feet...	10	...	1	6	3
25 To farm and residential users and other	16,580	...	548	14,900	1,132
26 irrigation organizations.....organizations...	1	...	...	...	1
27 Water to farm and residential					
28 users.....acre-feet...	1,680	...	...	...	1,680
29 Water to other irrigation					
30 organizations.....acre-feet...	804	...	...	...	804
31 To other irrigation organizations					
32 only.....organizations.....acre-feet...	...	...	...	...	...
33 All of water from other					
34 organizations.....organizations.....acre-feet...	7	1	1	5	...
35 Total water conveyed.....acre-feet...	7,193	3,851	300	3,042	...
36 Water delivered.....acre-feet...	5,000	2,100	290	2,610	...
37 To farm and residential					
38 users only.....organizations.....acre-feet...	7	1	1	5	...
39 To farm and residential users and other	5,000	2,100	290	2,610	...
40 irrigation organizations.....organizations...	...	...	...	...	...
41 Water to farm residential					
42 users.....acre-feet...	...	...	...	...	...
43 Water to other irrigation					
44 organizations.....acre-feet...	...	...	...	...	...
45 To other irrigation organizations					
46 only.....organizations.....acre-feet...	...	...	...	...	...
47 No water conveyed.....organizations...	1	...	1	...	...
WATER FROM OTHER SOURCES					
48 Organizations reporting no water from					
49 other sources used on land served					
50 by the organization.....organizations.....	440	39	55	258	66
51 acre served.....	441,358	55,099	38,720	255,256	80,821
52 Water delivered to farms.....acre-feet...	350,653	42,229	31,843	202,509	62,399
53 To farm and residential	845,675	160,927	67,108	485,943	88,703
54 acre-feet per acre...	2.4	3.8	2.1	2.4	1.4
55 Organizations reporting water from other					
56 sources used on land served by the					
57 organization.....organizations.....	6	...	2	2	1
58 acre served.....	32,543	...	26,855	2,588	350
59 Water delivered to farms.....acre-feet...	25,490	...	20,402	2,088	250
60 To farm and residential	81,992	...	71,396	2,960	397
61 acre-feet per acre...	3.2	...	3.5	1.4	1.6

¹Water was transferred to the basin and released to natural stream channels in excess of the quantity of surface water withdrawn by irrigation organizations. The net effect was to increase the available surface water supply in the basin or State.

State Table 2.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Continued

Item (For definitions and explanations, see text)	New Mexico, total	Colorado River above Lee's Ferry excluding Green and Gunnison Rivers	Rio Grande below Fort Quitman	Rio Grande above Fort Quitman, Texas	Arkansas River
	(IV-D)	(V-B)	(V-C)	(VI-B)	
WATER DELIVERED PER ACRE					
Organizations reporting 00 water from other sources used on same land:					
0.1 to 0.9 acre-feet per acre.....organizations...	45	...	2	30	11
1 23,989	23,989	...	820	13,607	4,916
2 158	158	...	17	97	32
3 1.0 to 1.9 acre-feet per acre.....organizations...	105,215	5,263	9,333	33,428	55,491
4 119	119	...	15	79	13
5 2.0 to 2.9 acre-feet per acre.....organizations...	132,612	10,354	18,548	102,305	1,385
6 72	72	...	13	24	2
7 3.0 to 3.9 acre-feet per acre.....organizations...	22,802	14,824	1,529	5,239	109
8 24	24	...	5	6	3
9 4.0 to 4.9 acre-feet per acre.....organizations...	56,189	5,558	792	47,684	315
10 5	5	...	...	...	...
11 5.0 to 5.9 acre-feet per acre.....organizations...	469	...	...	210	69
12 3	3	...	...	1	1
13 6.0 to 6.9 acre-feet per acre.....organizations...	240	...	...	36	4
14 3	3	...	...	...	2
15 7.0 to 7.9 acre-feet per acre.....organizations...	490	...	380	...	110
16 3	3	...	...	...	...
17 8.0 to 9.9 acre-feet per acre.....organizations...	2,530	2,530	...	...	...
18 8	8	...	...	...	...
19 10.0 or more acre-feet per acre.....organizations...	6,117	3,700	245	...	...
20 2	2	...	...	...	...
SIZE OF ORGANIZATION					
Size of organization (number of farm irrigation water users served directly):					
None.....organizations...	2	...	1	1	...
1 to 3.....organizations...	61	7	9	24	15
23 148	148	16	20	60	36
24 88	88	6	13	53	11
25 504	504	21	80	306	63
26 162	162	13	17	87	33
27 2,607	2,607	220	301	1,385	545
28 107	107	7	15	77	2
29 4,979	4,979	323	775	3,551	291
30 21	21	5	3	13	...
31 2,813	2,813	616	566	1,631	...
32 3	3	1	...	...	1
33 1,107	1,107	393	...	...	366
34 3	3	...	...	3	...
35 9,050	9,050	...	...	9,050	...
Size of organization (acre-feet of water delivered directly to farms):					
None.....organizations...	2	...	1	1	...
1 to 299 acre-feet.....organizations...	222	9	28	146	35
26 775	775	875	3,480	17,861	4,269
28 137	137	9	16	82	24
39 69,897	69,897	4,687	7,709	42,683	10,704
40 54	54	9	8	26	4
41 86,432	86,432	15,457	14,056	40,233	5,573
42 21	21	8	2	3	3
43 102,539	102,539	36,861	8,000	16,975	16,573
44 6	6	3	2	...	...
45 10,000 to 29,999 acre-feet.....organizations...	108,471	64,150	33,935	...	...
46 3	3	1	1	...	1
47 162,202	162,202	38,897	71,384	...	51,981
48 2	2	...	...	2	...
49 371,151	371,151	...	...	371,151	...
50 2	2	...	...	...	...
Size of organization (acre-feet of water conveyed):					
None.....organizations...	1	...	1	...	...
1 to 299 acre-feet.....organizations...	201	7	25	135	30
51 25,807	25,807	450	3,318	17,453	3,961
52 134	134	9	17	79	25
53 68,630	68,630	4,334	8,706	41,200	11,833
54 68	68	9	8	35	7
55 110,878	110,878	16,731	12,632	55,915	10,077
56 27	27	8	4	8	3
57 137,085	137,085	43,371	21,019	38,480	15,000
58 9	9	4	1	1	1
59 152,898	152,898	92,352	16,594	10,400	10,765
60 4	4	2	2	...	...
61 234,173	234,173	106,218	127,955	...	...
62 3	3	...	...	2	1
63 785,733	785,733	...	...	682,987	102,746
64 2	2	...	...	...	...
65 2	2	...	...	...	...

State Table 3.—LAND IRRIGATED BY SOURCE OF WATER, BY DRAINAGE BASINS: CENSUS OF 1959

	Item (For definitions and explanations, see text)	New Mexico, total	Arkansas River	Rio Grande below Fort Quitman, Texas	Colorado River above Lees Ferry excluding Green and Gunnison Rivers	Rio Grande above Fort Quitman, Texas	Mississippi River excluding Arkansas River and Red River direct below Lake Texoma
			(VI-B)	(V-E)	(IV-D)	(V-C)	(VI-A)
1	Total acres irrigated.....farms reporting...	8,890	663	1,521	517	4,723	7
2	acres...	731,835	75,219	181,266	24,954	220,383	2,000
3	Acres irrigated by sprinklers.....farms reporting...	158	20	14	...	49	...
4	acres...	18,988	1,484	572	...	3,156	...
5	Sprinklers only.....farms reporting...	85	10	5	...	24	...
6	acres...	12,754	946	282	...	1,897	...
	LAND IRRIGATED, BY SOURCE OF WATER TO INDIVIDUAL FARMS, 1959						
7	Ground water sources on farm.....farms reporting...	3,397	77	814	3	1,173	7
8	acres...	439,163	11,677	128,338	118	79,982	2,000
9	Ground water sources on farm only.....farms reporting...	2,507	68	648	3	538	7
10	acres...	392,498	11,413	107,160	118	57,053	2,000
11	Surface sources on farm.....farms reporting...	1,282	231	192	10	779	...
12	acres...	56,635	18,244	15,825	348	17,640	...
13	Surface sources on farm only.....farms reporting...	1,136	223	137	7	707	...
14	acres...	40,627	16,563	7,204	292	12,320	...
15	Irrigation organization sources.....farms reporting...	5,100	364	691	507	3,429	...
16	acres...	236,037	45,298	37,103	24,488	122,761	...
17	Irrigation organization sources only.....farms reporting...	4,321	361	565	504	2,819	...
18	acres...	165,639	44,675	23,321	24,435	69,958	...
19	Both farm ground water sources and surface sources.....farms reporting...	104	7	45	...	47	...
20	acres...	23,084	1,537	15,598	...	4,868	...
21	Both irrigation organization and farm ground water or farm surface sources.....farms reporting...	782	4	126	3	612	...
22	acres...	109,987	1,031	27,983	109	76,184	...

IRRIGATION OF AGRICULTURAL LANDS

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950

Item (For definitions and explanations, see text)	New Mexico, total						
	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users	
Irrigation organizations.....organizations 1959...	447	363	37	11	3	4	13
Service area, 1959:	620	485	80	7	3	...	45
Area served, as reported							
by organizations.....acres...	462,200	138,647	45,757	(D)	157,620	80,286	(D)
Area irrigated, as reported							
by organizations.....acres...	366,086	100,758	33,680	(D)	132,325	67,594	(D)
Water users served, 1959, total.....water users...	23,768	10,053	1,943	(D)	8,189	881	(D)
Farm irrigation water users.....water users...	20,828	8,147	1,709	(D)	7,550	879	(D)
Residential water users.....water users...	2,910	1,885	230	(D)	639	...	(D)
Other water users.....water users...	30	21	4	(D)	...	2	(D)
TYPE OF SERVICE, 1959							
All water directly from surface and ground							
water sources.....organizations...	428	345	37	11	2	4	13
Total water conveyed.....acre-feet...	1,419,407	279,580	68,692	(D)	682,987	227,060	(D)
Water delivered.....acre-feet...	932,369	210,514	53,609	(D)	403,975	145,740	(D)
To farm and residential users							
only.....organizations...	416	337	54	11	1	4	13
acre-feet...	708,823	189,982	45,020	(D)	209,550	145,740	(D)
To farm and residential users and other							
irrigation organizations.....organizations...	12	8	3	...	1	...	...
Water to farm and residential							
users.....acre-feet...	184,379	13,740	7,489	...	163,150	...	...
Water to other irrigation							
organizations.....acre-feet...	39,167	6,792	1,100	...	31,275	...	...
To other irrigation organizations							
only.....organizations...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
Part of water from other							
organizations.....organizations...	11	11	...	...	...	...	...
Total water conveyed.....acre-feet...	33,004	33,004	...	...	...	...	...
From surface and ground water							
sources.....acre-feet...	226	226	...	...	...	...	...
From other irrigation organizations.....acre-feet...	32,778	32,778	...	...	...	...	...
Water delivered.....acre-feet...	19,064	19,064	...	...	...	...	...
To farm and residential users							
only.....organizations...	10	10	...	...	...	...	...
acre-feet...	16,580	16,580	...	...	...	...	...
To farm and residential users and other							
irrigation organizations.....organizations...	1	1	...	...	...	...	...
Water to farm and residential							
users.....acre-feet...	1,680	1,680	...	...	...	...	...
Water to other irrigation							
organizations.....acre-feet...	804	804	...	...	...	...	...
To other irrigation organizations							
only.....organizations...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
All of water from other organizations.....organizations...	7	7	...	...	...	...	...
Total water conveyed.....acre-feet...	7,193	7,193	...	...	...	...	...
Water delivered.....acre-feet...	5,000	5,000	...	...	...	...	...
To farm and residential users							
only.....organizations...	7	7	...	...	...	...	...
acre-feet...	5,000	5,000	...	...	...	...	...
To farm and residential users and other							
irrigation organizations.....organizations...	...	...	...	...	...	...	...
Water to farm and residential							
users.....acre-feet...	...	...	...	...	...	...	...
Water to other irrigation							
organizations.....acre-feet...	...	...	...	...	...	...	...
To other irrigation organizations							
only.....organizations...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
No water conveyed.....organizations...	1	...	...	...	1	...	...
WATER FROM OTHER SOURCES							
Organizations reporting no water from other							
sources used on the land served by the							
organization.....organizations...	440	360	55	10	2	3	13
acres served...	441,358	137,316	51,301	(D)	157,620	55,220	(D)
acres irrigated...	350,653	99,527	39,160	(D)	132,325	47,912	(D)
water delivered to farms (acre-feet)...	845,675	208,013	74,270	(D)	371,151	27,633	(D)
acre-feet per acre...	2.4	2.1	1.9	1.8	2.8	0.6	5.1
Organizations reporting water from other							
sources used on land served by the							
organization.....organizations...	6	3	2	1	...	1	...
acres served...	32,543	3,188	4,300	(D)	...	25,055	...
acres irrigated...	25,490	3,088	2,720	(D)	...	19,682	...
water delivered to farms (acre-feet)...	81,992	7,868	2,800	(D)	...	71,324	...
acre-feet per acre...	5.2	2.5	1.0	5.6	...	3.6	...
NEW CAPITAL INVESTMENT, 1950-1959							
Expenditures for additional new works and							
equipment for irrigation and drainage,							
January 1, 1950-December 31, 1959.....organizations...	212	167	34	8	2	3	1
By U. S. B. R.....dollars...	12,772,740	...	...	(D)	12,203,000	569,740	...
By water users organizations.....dollars...	893,522	407,373	324,052	(D)	...	105,872	(D)

See footnote at end of table.

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

Item (For definitions and explanations, see text)	New Mexico, total						
	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users	
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
Total entering conveyance systems.....organizations... acre-feet...	446 1,419,633	363 279,806	57 68,692	11 (D)	2 682,987	4 227,060	13 (D)
From another drainage basin.....organizations... acre-feet...	2 1,903	1 242	1 1,661	...	...	...	...
From drainage basin.....D. B. No.....	...	...	...	...	...	...	...
From sources within basin.....organizations... acre-feet...	437 1,417,730	355 279,564	56 67,031	11 (D)	2 682,987	4 227,060	13 (D)
Surface water.....organizations... acre-feet...	428 1,372,752	350 274,584	54 65,949	11 (D)	2 656,487	4 227,060	11 (D)
Ground water.....organizations... acre-feet...	26 44,978	16 4,980	6 1,082	...	1 26,500	3 ...	3 (D)
From other organizations in the basin.....organizations receiving... acre-feet...	18 39,971	18 39,971	...	...	...	...	...
Total leaving conveyance systems.....organizations... acre-feet...	446 1,419,633	363 312,181	57 67,592	11 (D)	2 651,712	4 227,060	13 (D)
Conveyance loss in basin.....organizations... acre-feet...	423 492,142	349 78,216	52 12,480	9 (D)	2 279,012	4 80,327	11 (D)
Conveyed to another drainage basin.....organizations... acre-feet...	...	...	...	...	...	...	...
To drainage basin number.....D. B. No.....	...	...	...	...	...	...	...
Delivered for use in the basin.....organizations... acre-feet...	446 927,491	363 233,965	57 55,112	11 (D)	2 372,700	4 146,733	13 (D)
To farm irrigation water users.....organizations... acre-feet...	445 900,617	362 214,082	57 51,819	11 (D)	2 371,151	4 145,740	13 (D)
To domestic water users.....organizations... acre-feet...	76 15,845	63 12,900	9 690	3 (D)	1 1,549	1...	...
For other use.....organizations... acre-feet...	13 11,029	8 6,983	3 2,603	2 (D)	...	...	...
Delivered to other irrigation organizations.....organizations delivering... acre-feet...	12 39,971	9 7,596	2 1,100	...	1 31,275	...	...
SIZE OF ORGANIZATION, 1959							
Size of organization (number of farm irrigation water users):							
None.....organizations... 1 to 3 water users.....organizations... 4 to 9 water users.....organizations... 10 to 29 water users.....organizations... 30 to 99 water users.....organizations... 100 to 299 water users.....organizations... 300 to 999 water users.....organizations... 1,000 or more water users.....organizations...	11 61 88 153 107 21 3 3	9 56 75 130 78 14 1 ...	1 2 10 19 22 3 1 ...	(D) (D) (D) (D) (D) (D) (D) (D)	1 ...	...	(D) (D) (D) (D) (D) (D) (D) (D)
Size of organization (acre-feet of water delivered directly to farms):							
None.....organizations... 1 to 299 acre-feet.....organizations... 300 to 999 acre-feet.....organizations... 1,000 to 2,999 acre-feet.....organizations... 3,000 to 9,999 acre-feet.....organizations... 10,000 to 29,999 acre-feet.....organizations... 30,000 to 99,999 acre-feet.....organizations... 100,000 or more acre-feet.....organizations...	2 222 137 54 21 6 6 2	1 194 115 37 15 3 3 ...	...	(D) (D) (D) (D) (D) (D) (D) (D)	1 ...	...	(D) (D) (D) (D) (D) (D) (D) (D)
Size of organization (acre-feet of water conveyed):							
None.....organizations... 1 to 299 acre-feet.....organizations... 300 to 999 acre-feet.....organizations... 1,000 to 2,999 acre-feet.....organizations... 3,000 to 9,999 acre-feet.....organizations... 10,000 to 29,999 acre-feet.....organizations... 30,000 to 99,999 acre-feet.....organizations... 100,000 or more acre-feet.....organizations...	1 201 134 68 27 9 4 3	...	...	(D) (D) (D) (D) (D) (D) (D) (D)	1 ...	...	(D) (D) (D) (D) (D) (D) (D) (D)

D Data not shown to avoid disclosure of information for individual organizations.

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

Item (For definitions and explanations, see text)	Colorado River above Lees Ferry excluding Green and Gunnison Rivers (IV-D)						
	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users	
Irrigation organizations.....organizations 1959...	39	20	5	3	...	...	11
1949...	59	32	4	1	...	...	22
Service area, 1959:							
Area served, as reported							
by organizations.....acres...	42,152	16,907	4,683	10,750	...	...	12,812
Area irrigated, as reported							
by organizations.....acres...	33,926	14,271	3,829	9,500	...	...	6,326
Water users served, 1959, total.....water users...	2,106	982	214	431	...	...	509
Farm irrigation water users.....water users...	1,501	507	209	276	...	...	509
Residential water users.....water users...	583	428	3	152	...	...	...
Other water users.....water users...	22	17	2	3	...	...	...
TYPE OF SERVICE, 1959							
All water directly from surface and ground							
water sources.....organizations...	38	19	5	3	...	...	11
Total water conveyed.....acre-feet...	205,914	76,128	12,573	40,005	...	...	77,208
Water delivered.....acre-feet...	147,359	48,993	9,939	28,900	...	...	59,327
To farm and residential users							
only.....organizations...	36	18	4	3	...	...	11
acre-feet...	131,949	34,912	8,610	28,900	...	...	59,327
To farm and residential users and other							
irrigation organizations.....organizations...	2	1	1	...	...	...	...
Water to farm and residential							
users.....acre-feet...	11,559	10,230	1,329	...	...	...	...
Water to other irrigation							
organizations.....acre-feet...	3,851	3,851	...	...	...	...	...
To other irrigation organizations							
only.....organizations...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
Part of water from other							
organizations.....organizations...	...	...	...	...	...	...	...
Total water conveyed.....acre-feet...	...	...	...	...	...	...	...
From surface and ground water							
sources.....acre-feet...	...	...	...	...	...	...	...
From other irrigation organizations.....acre-feet...	...	...	...	...	...	...	...
Water delivered.....acre-feet...	...	...	...	...	...	...	...
To farm and residential users							
only.....organizations...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
To farm and residential users and other							
irrigation organizations.....organizations...	...	...	...	...	...	...	...
Water to farm and residential							
users.....acre-feet...	...	...	...	...	...	...	...
Water to other irrigation							
organizations.....acre-feet...	...	...	...	...	...	...	...
To other irrigation organizations							
only.....organizations...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
All of water from other organizations.....organizations...	1	1	...	...	...	...	...
Total water conveyed.....acre-feet...	3,851	3,851	...	...	...	...	...
Water delivered.....acre-feet...	2,100	2,100	...	...	...	...	...
To farm and residential users							
only.....organizations...	1	1	...	...	...	...	...
acre-feet...	2,100	2,100	...	...	...	...	...
To farm and residential users and other							
irrigation organizations.....organizations...	...	...	...	...	...	...	...
Water to farm and residential							
users.....acre-feet...	...	...	...	...	...	...	...
Water to other irrigation							
organizations.....acre-feet...	...	...	...	...	...	...	...
To other irrigation organizations							
only.....organizations...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
No water conveyed.....organizations...	...	...	...	...	...	...	...
WATER FROM OTHER SOURCES							
Organizations reporting no water from other							
sources used on the land served by the							
organization.....organizations...	39	20	5	3	...	...	11
acres served...	55,099	17,010	14,527	10,750	...	...	12,812
acres irrigated...	42,229	14,374	12,029	9,500	...	...	6,326
water delivered to farms (acre-feet)...	160,927	37,793	35,184	28,463	...	...	59,327
acre-feet per acre...	3.8	2.6	2.9	3.0	...	...	9.4
Organizations reporting water from other							
sources used on land served by the							
organization.....organizations...	...	...	...	...	...	...	...
acres served...	...	...	...	...	...	...	...
acres irrigated...	...	...	...	...	...	...	...
water delivered to farms (acre-feet)...	...	...	...	...	...	...	...
acre-feet per acre...	...	...	...	...	...	...	...
NEW CAPITAL INVESTMENT, 1950-1959							
Expenditures for additional new works and							
equipment for irrigation and drainage,							
January 1, 1950-December 31, 1959.....organizations...	16	12	3	1	...	...	...
By U. S. B. R.....dollars...	...	...	...	...	...	...	...
By water users organizations.....dollars...	164,814	74,951	69,863	20,000	...	...	...

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

Colorado River above Lees Ferry excluding Green and Gunnison Rivers (IV-D)								
Item (For definitions and explanations, see text)	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other	
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users		
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959								
Total entering conveyance systems.....organizations...	39	20	5	3	...	...	11
acre-feet.....	205,914	76,128	12,573	40,005	...	...	77,208
From another drainage basin.....organizations...	2	1	1	...	...	...	...
acre-feet.....	1,903	242	1,661	...	...	...	...
From drainage basin.....D. B. No....	...	...	...	...	...	...	...
From sources within basin.....organizations...	36	18	4	3	...	...	11
acre-feet.....	204,011	75,886	10,912	40,005	...	...	77,208
Surface water.....organizations...	34	18	4	3	...	...	9
acre-feet.....	203,995	75,886	10,912	40,005	...	...	77,192
Ground water.....organizations...	2	...	...	...	...	...	2
acre-feet.....	16	...	...	...	...	...	16
From other organizations in the basin.....organizations receiving...	1	1	...	...	...	...	...
acre-feet.....	3,851	3,851	...	...	...	...	...
Total leaving conveyance systems.....organizations...	39	20	5	3	...	...	11
acre-feet.....	205,914	76,128	12,573	40,005	...	...	77,208
Conveyance loss in basin.....organizations...	37	20	5	3	...	...	9
acre-feet.....	53,439	23,589	1,514	10,655	...	...	17,681
Conveyed to another drainage basin.....organizations...	...	...	...	...	...	...	...
acre-feet.....	...	...	...	...	...	...	...
To drainage basin number.....D. B. No....	...	...	...	...	...	...	...
Delivered for use in the basin.....organizations...	39	20	5	3	...	...	11
acre-feet.....	152,475	52,539	11,059	29,350	...	...	59,527
To farm irrigation water users.....organizations...	39	20	5	3	...	...	11
acre-feet.....	135,396	37,473	9,933	28,463	...	...	59,527
To domestic water users.....organizations...	8	5	1	2	...	...	...
acre-feet.....	10,212	9,769	6	437	...	...	...
For other use.....organizations...	6	4	1	1	...	...	...
acre-feet.....	6,867	5,297	1,120	450	...	...	...
Delivered to other irrigation organizations.....organizations delivering...	1	1	...	...	...	...	...
acre-feet.....	3,851	3,851	...	...	...	...	...
SIZE OF ORGANIZATION, 1959								
Size of organization (number of farm irrigation water users):								
None.....organizations...	1	1	...	...	...	...	...
1 to 3 water users.....organizations...	7	4	...	...	...	...	3
4 to 9 water users.....organizations...	6	7	...	...	...	...	2
10 to 29 water users.....organizations...	12	7	2	...	...	...	3
30 to 99 water users.....organizations...	7	2	1	2	...	...	2
100 to 299 water users.....organizations...	5	2	2	1	...	...	1
300 to 999 water users.....organizations...	1	...	...	...	...	...	1
1,000 or more water users.....organizations...	...	...	...	...	...	...	...
Size of organization (acre-feet of water delivered directly to farms):								
None.....organizations...	...	...	...	...	...	...	...
1 to 299 acre-feet.....organizations...	9	2	...	...	...	...	7
300 to 999 acre-feet.....organizations...	9	7	1	...	...	...	1
1,000 to 2,999 acre-feet.....organizations...	9	5	2	1	...	...	1
3,000 to 9,999 acre-feet.....organizations...	8	6	1	1	...	...	...
10,000 to 29,999 acre-feet.....organizations...	3	...	1	1	...	...	1
30,000 to 99,999 acre-feet.....organizations...	1	...	...	...	...	...	1
100,000 or more acre-feet.....organizations...	...	...	...	...	...	...	...
Size of organization (acre-feet of water conveyed):								
None.....organizations...	...	...	...	...	...	...	...
1 to 299 acre-feet.....organizations...	7	1	...	...	...	...	6
300 to 999 acre-feet.....organizations...	9	6	1	...	...	...	2
1,000 to 2,999 acre-feet.....organizations...	9	6	2	...	...	...	1
3,000 to 9,999 acre-feet.....organizations...	8	5	1	2	...	...	...
10,000 to 29,999 acre-feet.....organizations...	4	2	...	1	...	...	1
30,000 to 99,999 acre-feet.....organizations...	2	...	1	...	...	...	1
100,000 or more acre-feet.....organizations...	...	...	...	...	...	...	...

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

Rio Grande below Fort Quitman (V-3)							
Item (For definitions and explanations, see text)	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users	
Irrigation organizations.....organizations 1959...	58	45	8	2	1	2	2
1949...	71	55	11	2	1	...	2
Service area, 1959:							
Area served, as reported							
by organizations.....acres...	65,975	11,507	(D)	(D)	...	(D)	(D)
Area irrigated, as reported							
by organizations.....acres...	52,245	8,206	(D)	(D)	...	(D)	(D)
Water users served, 1959, total.....water users...	1,821	1,031	(D)	(D)	...	(D)	(D)
Farm irrigation water users.....water users...	1,742	973	(D)	(D)	...	(D)	(D)
Residential water users.....water users...	73	56	(D)	...	...	(D)	...
Other water users.....water users...	6	2	(D)	(D)	...	(D)	...
TYPE OF SERVICE, 1959							
All water directly from surface and ground							
water sources.....organizations...	55	43	8	2	...	2	2
Total water conveyed.....acres-feet...	189,306	25,351	(D)	(D)	...	(D)	(D)
Water delivered.....acres-feet...	138,522	20,520	(D)	(D)	...	(D)	(D)
To farm and residential users							
only.....organizations...	33	42	7	2	...	2	2
acres-feet...	132,517	19,615	(D)	(D)	...	(D)	(D)
To farm and residential users and other							
irrigation organizations.....organizations...	2	1	1	...	...	...	...
Water to farm and residential							
users.....acres-feet...	5,340	540	(D)	...	...	...	...
Water to other irrigation							
organizations.....acres-feet...	665	365	(D)	...	...	...	...
To other irrigation organizations							
only.....organizations...	...	...	...	...	...	...	...
acres-feet...	...	...	...	...	...	...	...
Part of water from other							
organizations.....organizations...	1	1	...	...	...	...	...
Total water conveyed.....acres-feet...	618	618	...	...	...	...	...
From surface and ground water							
sources.....acres-feet...	253	253	...	...	...	...	...
From other irrigation organizations.....acres-feet...	365	365	...	...	...	...	...
Water delivered.....acres-feet...	548	548	...	...	...	...	...
To farm and residential users							
only.....organizations...	1	1	...	...	...	...	...
acres-feet...	548	548	...	...	...	...	...
To farm and residential users and other							
irrigation organizations.....organizations...	...	...	...	...	...	...	...
Water to farm and residential							
users.....acres-feet...	...	...	...	...	...	...	...
Water to other irrigation							
organizations.....acres-feet...	...	...	...	...	...	...	...
To other irrigation organizations							
only.....organizations...	...	...	...	...	...	...	...
acres-feet...	...	...	...	...	...	...	...
All of water from other organizations.....organizations...	1	1	...	...	...	...	...
Total water conveyed.....acres-feet...	300	300	...	...	...	...	...
Water delivered.....acres-feet...	290	290	...	...	...	...	...
To farm and residential users							
only.....organizations...	1	1	...	...	...	...	...
acres-feet...	290	290	...	...	...	...	...
To farm and residential users and other							
irrigation organizations.....organizations...	...	...	...	...	...	...	...
Water to farm and residential							
users.....acres-feet...	...	...	...	...	...	...	...
Water to other irrigation							
organizations.....acres-feet...	...	...	...	...	...	...	...
To other irrigation organizations							
only.....organizations...	...	...	...	...	...	...	...
acres-feet...	...	...	...	...	...	...	...
No water conveyed.....organizations...	1	...	...	...	1	...	...
WATER FROM OTHER SOURCES							
Organizations reporting no water from other							
sources used on the land served by the							
organization.....organizations...	55	45	7	1	...	...	2
acres served...	38,720	11,507	(D)	(D)	...	...	(D)
acres irrigated...	31,843	8,206	(D)	(D)	...	...	(D)
water delivered to farms (acres-feet)...	67,108	20,837	(D)	(D)	...	...	(D)
acres-feet per acre...	2.1	2.5	1.3	2.5	...	...	2.2
Organizations reporting water from other							
sources used on land served by the							
organization.....organizations...	2	...	1	1	...	...	...
acres served...	26,855	...	(D)	(D)	...	...	...
acres irrigated...	20,402	...	(D)	(D)	...	...	...
water delivered to farms (acres-feet)...	71,396	...	(D)	(D)	...	...	...
acres-feet per acre...	3.5	...	0.1	3.6	...	...	...
NEW CAPITAL INVESTMENT, 1950-1959							
Expenditures for additional new works and							
equipment for irrigation and drainage,							
January 1, 1950-December 31, 1959.....organizations...	34	24	6	2	...	2	1
By U. S. B. B. R. ....dollars...	1,008,000	...	...	...	1,008,000	...	...
By water users organizations.....dollars...	373,697	61,624	(D)	(D)	...	(D)	...
See footnote at end of table.							

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

Rio Grande below Fort Quitman (V-B)							
Item (For definitions and explanations, see text)	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users	
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
Total entering conveyance systems.....organizations...	57	45	8	2	...	2	2
acre-feet...	189,559	25,604	(D)	(D)	...	(D)	(D)
From another drainage basin.....organizations...	...	...	...	...	...	...	...
From drainage basin.....D. B. No.....	...	...	...	...	...	...	...
From sources within basin.....organizations...	56	44	8	2	...	2	2
Surface water.....organizations...	189,559	25,604	(D)	(D)	...	(D)	(D)
Ground water.....organizations...	54	44	6	2	...	2	2
From other organizations in the basin.....organizations receiving...	176,649	25,604	(D)	(D)	...	(D)	(D)
acre-feet...	3	...	2	...	...	...	1
From other organizations in the basin.....organizations receiving...	12,910	...	(D)	...	...	...	(D)
acre-feet...	2	2	...	...	...	...	...
From other organizations in the basin.....organizations receiving...	665	665	...	...	...	...	...
Total leaving conveyance systems.....organizations...	57	45	8	2	...	2	2
acre-feet...	189,559	25,904	(D)	(D)	...	(D)	(D)
Conveyance loss in basin.....organizations...	54	45	5	2	...	2	2
acre-feet...	47,938	4,461	(D)	(D)	...	(D)	(D)
Conveyed to another drainage basin.....organizations...	...	...	...	...	...	...	...
To drainage basin number.....D. B. No.....	...	...	...	...	...	...	...
Delivered for use in the basin.....organizations...	57	45	8	2	...	2	2
To farm irrigation water users.....organizations...	141,621	21,443	(D)	(D)	...	(D)	(D)
To domestic water users.....organizations...	57	45	8	2	...	2	2
For other use.....organizations...	138,504	20,837	(D)	(D)	...	(D)	(D)
Delivered to other irrigation organizations.....	8	7	...	...	...	...	...
For other use.....organizations...	191	156	(D)	...	...	...	...
Delivered to other irrigation organizations.....	5	2	2	1	...	1	...
acre-feet...	2,926	450	(D)	(D)	...	(D)	...
Delivered to other irrigation organizations.....	2	1	1	...	...	...	...
acre-feet...	665	365	(D)	...	...	...	...
SIZE OF ORGANIZATION, 1959							
Size of organization (number of farm irrigation water users):							
None.....organizations...	1	...	(D)	(D)	1	(D)	(D)
1 to 3 water users.....organizations...	9	8	(D)	(D)	...	(D)	(D)
4 to 9 water users.....organizations...	13	10	(D)	(D)	...	(D)	(D)
10 to 29 water users.....organizations...	17	15	(D)	(D)	...	(D)	(D)
30 to 99 water users.....organizations...	15	12	(D)	(D)	...	(D)	(D)
100 to 299 water users.....organizations...	3	...	(D)	(D)	...	(D)	(D)
300 to 999 water users.....organizations...	...	...	...	...	...	(D)	...
1,000 or more water users.....organizations...	...	...	...	...	...	(D)	...
Size of organization (acre-feet of water delivered directly to farms):							
None.....organizations...	1	...	(D)	(D)	1	(D)	(D)
1 to 299 acre-feet.....organizations...	28	25	(D)	(D)	...	(D)	(D)
300 to 999 acre-feet.....organizations...	16	14	(D)	(D)	...	(D)	(D)
1,000 to 2,999 acre-feet.....organizations...	8	5	(D)	(D)	...	(D)	(D)
3,000 to 9,999 acre-feet.....organizations...	2	1	(D)	(D)	...	(D)	(D)
10,000 to 29,999 acre-feet.....organizations...	2	...	(D)	(D)	...	(D)	(D)
30,000 to 99,999 acre-feet.....organizations...	1	...	(D)	(D)	...	(D)	(D)
100,000 or more acre-feet.....organizations...	...	...	...	...	...	(D)	...
Size of organization (acre-feet of water conveyed):							
None.....organizations...	1	...	(D)	(D)	1	(D)	(D)
1 to 299 acre-feet.....organizations...	25	22	(D)	(D)	...	(D)	(D)
300 to 999 acre-feet.....organizations...	17	15	(D)	(D)	...	(D)	(D)
1,000 to 2,999 acre-feet.....organizations...	8	6	(D)	(D)	...	(D)	(D)
3,000 to 9,999 acre-feet.....organizations...	4	2	(D)	(D)	...	(D)	(D)
10,000 to 29,999 acre-feet.....organizations...	1	...	...	(D)	...	(D)	(D)
30,000 to 99,999 acre-feet.....organizations...	1	...	...	(D)	...	(D)	(D)
100,000 or more acre-feet.....organizations...	...	...	...	...	...	(D)	...

D Data not shown to avoid disclosure of information for individual organizations.

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

Item (For definitions and explanations, see text)	Rio Grande above Fort Quitman, Texas (V-C)						
	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users	
Irrigation organizations.....organizations 1959...	260	215	39	4	2	...	...
1949...	379	314	42	3	1	...	19
Service area, 1959:							
Area served, as reported							
by organizations.....acres...	257,094	74,751	18,021	6,702	157,620	...	...
Area irrigated, as reported							
by organizations.....acres...	204,222	50,621	14,785	6,491	132,325	...	...
Water users served, 1959, total.....water users...	18,021	6,774	1,464	1,594	8,189	...	...
Farm irrigation water users.....water users...	15,933	5,539	1,254	1,590	7,550	...	...
Residential water users.....water users...	2,087	1,234	210	4	639	...	...
Other water users.....water users...	1	1	...	...	...	...	...
TYPE OF SERVICE, 1959							
All water directly from surface and ground							
water sources.....organizations...	249	204	39	4	2	...	...
Total water conveyed.....acre-feet...	815,443	91,854	29,709	10,913	682,987	...	...
Water delivered.....acre-feet...	509,958	70,910	29,665	9,338	403,975	...	...
To farm and residential users							
only.....organizations...	243	200	38	4	1	...	...
To farm and residential users and other							
irrigation organizations.....organizations...	309,483	67,090	23,505	9,338	209,550	...	...
Water to farm and residential							
users.....acre-feet...	6	4	1	...	1	...	...
Water to other irrigation							
organizations.....acre-feet...	166,193	1,683	1,360	...	163,150	...	...
To other irrigation organizations							
only.....organizations...	34,212	2,137	800	...	31,275	...	...
Water to farm and residential							
users.....acre-feet...	...	...	...	...	...	...	...
Part of water from other							
organizations.....organizations...	6	6	...	...	...	...	...
Total water conveyed.....acre-feet...	27,930	27,930	...	...	...	...	...
From surface and ground water							
sources.....acre-feet...	1,3,240	1,3,240	...	...	...	...	...
From other irrigation organizations.....acre-feet...	31,170	31,170	...	...	...	...	...
Water delivered.....acre-feet...	14,900	14,900	...	...	...	...	...
To farm and residential users							
only.....organizations...	6	6	...	...	...	...	...
To farm and residential users and other							
irrigation organizations.....organizations...	14,900	14,900	...	...	...	...	...
Water to farm and residential							
users.....acre-feet...	...	...	...	...	...	...	...
Water to other irrigation							
organizations.....acre-feet...	...	...	...	...	...	...	...
To other irrigation organizations							
only.....organizations...	...	...	...	...	...	...	...
All of water from other organizations.....organizations...	5	5	...	...	...	...	...
Total water conveyed.....acre-feet...	3,042	3,042	...	...	...	...	...
Water delivered.....acre-feet...	2,610	2,610	...	...	...	...	...
To farm and residential users							
only.....organizations...	5	5	...	...	...	...	...
To farm and residential users and other							
irrigation organizations.....organizations...	2,610	2,610	...	...	...	...	...
Water to farm and residential							
users.....acre-feet...	...	...	...	...	...	...	...
Water to other irrigation							
organizations.....acre-feet...	...	...	...	...	...	...	...
To other irrigation organizations							
only.....organizations...	...	...	...	...	...	...	...
No water conveyed.....organizations...	...	...	...	...	...	...	...
WATER FROM OTHER SOURCES							
Organizations reporting no water from other							
sources used on the land served by the							
organization.....organizations...	258	214	38	4	2	...	...
acres served.....acres...	255,256	75,413	15,521	6,702	157,620	...	...
acres irrigated.....acres...	202,509	50,908	12,785	6,491	132,325	...	...
water delivered to farms (acre-feet).....acre-feet per acre...	485,943	84,235	21,488	9,069	371,151	...	...
Organizations reporting water from other							
sources used on land served by the							
organization.....organizations...	2	1	1	...	...	...	...
acres served.....acres...	2,588	48	2,500	...	...	...	...
acres irrigated.....acres...	2,088	88	2,000	...	...	...	...
water delivered to farms (acre-feet).....acre-feet per acre...	2,960	232	2,728	...	...	...	...
NEW CAPITAL INVESTMENT, 1950-1959							
Expenditures for additional new works and							
equipment for irrigation and drainage,							
January 1, 1950-December 31, 1959.....organizations...	123	96	22	4	1	...	...
By U. S. B. R.....dollars...	11,195,000	140,707	55,133	16,225	11,195,000	...	...
By water users organizations.....dollars...	212,065	...	...	...	...	...	...

See footnote at end of table.

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

Item (For definitions and explanations, see text)	Rio Grande above Fort Quitman, Texas (V-C)						
	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users	
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
Total entering conveyance systems.....organizations.....	260	215	39	4	2	...	...
acre-feet.....	812,223	88,614	29,709	10,913	682,987	...	...
From another drainage basin.....organizations.....	...	...	...	...	...	...	...
acre-feet.....	...	...	...	...	...	...	...
From drainage basin.....D. B. No.....	...	...	...	...	...	...	...
From sources within basin.....organizations.....	255	210	39	4	2	...	...
acre-feet.....	812,223	88,614	29,709	10,913	682,987	...	...
Surface water.....organizations.....	250	205	39	4	2	...	...
acre-feet.....	781,068	84,531	29,137	10,913	656,487	...	...
Ground water.....organizations.....	16	11	4	...	1	...	...
acre-feet.....	31,155	4,083	572	...	26,500	...	...
From other organizations in the basin.....organizations receiving.....	11	11	...	...	...	...	...
acre-feet.....	34,212	34,212	...	...	...	...	...
Total leaving conveyance systems.....organizations.....	260	215	39	4	2	...	...
acre-feet.....	812,223	120,689	28,909	10,913	651,712	...	...
Conveyance loss in basin.....organizations.....	242	201	37	2	2	...	...
acre-feet.....	318,221	33,590	4,044	1,575	279,012	...	...
Conveyed to another drainage basin.....organizations.....	1	1	...	...	...	...	...
acre-feet.....	480	480	...	...	...	...	...
To drainage basin number.....D. B. No.....	...	...	...	...	...	...	...
Delivered for use in the basin.....organizations.....	259	214	39	4	2	...	...
acre-feet.....	493,522	86,619	24,865	9,338	372,700	...	...
To farm irrigation water users.....organizations.....	258	213	39	4	2	...	...
acre-feet.....	488,556	84,120	24,216	9,069	371,151	...	...
To domestic water users.....organizations.....	44	35	7	1	1	...	...
acre-feet.....	4,630	2,163	649	269	1,549	...	...
For other use.....organizations.....	1	1	...	...	...	...	...
acre-feet.....	336	336	...	...	...	...	...
Delivered to other irrigation organizations.....organizations delivering.....	5	3	1	...	1	...	...
acre-feet.....	34,212	2,137	800	...	31,275	...	...
SIZE OF ORGANIZATION, 1959							
Size of organization (number of farm irrigation water users):							
None.....organizations.....	8	7	1	...	...	...	...
1 to 3 water users.....organizations.....	24	24	...	...	...	...	...
4 to 9 water users.....organizations.....	53	45	7	1	...	...	...
10 to 29 water users.....organizations.....	82	69	12	1	...	...	...
30 to 99 water users.....organizations.....	77	58	18	1	...	...	...
100 to 299 water users.....organizations.....	13	12	1	...	...	...	...
300 to 999 water users.....organizations.....	...	...	...	...	...	...	...
1,000 or more water users.....organizations.....	3	...	...	1	2	...	...
Size of organization (acre-feet of water delivered directly to farms):							
None.....organizations.....	1	1	...	...	...	...	...
1 to 299 acre-feet.....organizations.....	146	129	16	1	...	...	...
300 to 999 acre-feet.....organizations.....	82	66	15	1	...	...	...
1,000 to 2,999 acre-feet.....organizations.....	26	17	8	1	...	...	...
3,000 to 9,999 acre-feet.....organizations.....	3	2	...	1	...	...	...
10,000 to 29,999 acre-feet.....organizations.....	...	...	...	...	...	...	...
30,000 to 99,999 acre-feet.....organizations.....	...	...	...	...	...	...	...
100,000 or more acre-feet.....organizations.....	2	...	...	...	2	...	...
Size of organization (acre-feet of water conveyed):							
None.....organizations.....	...	...	...	...	...	...	...
1 to 299 acre-feet.....organizations.....	136	119	15	1	...	...	...
300 to 999 acre-feet.....organizations.....	79	65	14	...	...	...	...
1,000 to 2,999 acre-feet.....organizations.....	35	24	9	2	...	...	...
3,000 to 9,999 acre-feet.....organizations.....	8	6	1	1	...	...	...
10,000 to 29,999 acre-feet.....organizations.....	1	1	...	...	...	...	...
30,000 to 99,999 acre-feet.....organizations.....	...	...	...	...	...	...	...
100,000 or more acre-feet.....organizations.....	2	...	...	...	2	...	...

¹Water was transferred to the basin and released to natural stream channels in excess of the quantity of surface water withdrawn by irrigation organizations. The net effect was to increase the available surface water supply in the basin or State.

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

Item (For definitions and explanations, see text)	Arkansas River (VI-B)						
	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users	
Irrigation organizations.....organizations 1959...	67	60	5	2	...	2	...
Service area, 1959:	84	58	25	...	1	...	...
Area served, as reported							
by organizations.....acres...	81,171	22,274	(D)	(D)	...	(D)	...
Area irrigated, as reported							
by organizations.....acres...	62,649	14,616	(D)	(D)	...	(D)	...
Water users served, 1959, total.....water users...	1,422	898	(D)	(D)	...	(D)	...
Farm irrigation water users.....water users...	1,301	777	(D)	(D)	...	(D)	...
Residential water users.....water users...	120	120	...	...	...	...	...
Other water users.....water users...	1	1	...	...	...	...	...
TYPE OF SERVICE, 1959							
All water directly from surface and ground							
water sources.....organizations...	63	56	5	2	...	2	...
Total water conveyed.....acre-feet...	149,926	27,449	(D)	(D)	...	(D)	...
Water delivered.....acre-feet...	87,431	20,922	(D)	(D)	...	(D)	...
To farm and residential users							
only.....organizations...	60	53	5	2	...	2	...
acre-feet...	85,705	19,196	(D)	(D)	...	(D)	...
To farm and residential users and other							
irrigation organizations.....organizations...	3	3	...	...	...	...	...
Water to farm and residential							
users.....acre-feet...	1,287	1,287	...	...	...	...	...
Water to other irrigation							
organizations.....acre-feet...	439	439	...	...	...	...	...
To other irrigation organizations							
only.....organizations...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
Part of water from other							
organizations.....organizations...	4	4	...	...	...	...	...
Total water conveyed.....acre-feet...	4,456	4,456	...	...	...	...	...
From surface and ground water							
sources.....acre-feet...	3,213	3,213	...	...	...	...	...
From other irrigation organizations.....acre-feet...	1,243	1,243	...	...	...	...	...
Water delivered.....acre-feet...	3,616	3,616	...	...	...	...	...
To farm and residential users							
only.....organizations...	3	3	...	...	...	...	...
acre-feet...	1,132	1,132	...	...	...	...	...
To farm and residential users and other							
irrigation organizations.....organizations...	1	1	...	...	...	...	...
Water to farm and residential							
users.....acre-feet...	1,680	1,680	...	...	...	...	...
Water to other irrigation							
organizations.....acre-feet...	804	804	...	...	...	...	...
To other irrigation organizations							
only.....organizations...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
All of water from other organizations.....organizations...	...	...	...	...	...	...	...
Total water conveyed.....acre-feet...	...	...	...	...	...	...	...
Water delivered.....acre-feet...	...	...	...	...	...	...	...
To farm and residential users							
only.....organizations...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
To farm and residential users and other							
irrigation organizations.....organizations...	...	...	...	...	...	...	...
Water to farm and residential							
users.....acre-feet...	...	...	...	...	...	...	...
Water to other irrigation							
organizations.....acre-feet...	...	...	...	...	...	...	...
To other irrigation organizations							
only.....organizations...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
No water conveyed.....organizations...	...	...	...	...	...	...	...
WATER FROM OTHER SOURCES							
Organizations reporting no water from other							
sources used on the land served by the							
organization.....organizations...	66	59	5	2	...	...	...
acres served...	80,821	21,924	(D)	(D)	...	...	...
acres irrigated...	62,399	14,366	(D)	(D)	...	...	...
water delivered to farms (acre-feet)...	88,703	22,194	(D)	(D)	...	...	...
acre-feet per acre...	1.4	1.5	1.2	1.4	...	...	...
Organizations reporting water from other							
sources used on land served by the							
organization.....organizations...	1	1	...	...	...	...	...
acres served...	350	350	...	...	...	...	...
acres irrigated...	250	250	...	...	...	...	...
water delivered to farms (acre-feet)...	397	397	...	...	...	...	...
acre-feet per acre...	1.6	1.6	...	...	...	...	...
NEW CAPITAL INVESTMENT, 1950-1959							
Expenditures for additional new works and							
equipment for irrigation and drainage,							
January 1, 1950-December 31, 1959.....organizations...	29	25	3	1	...	2	...
By U. S. B. R.....dollars...	569,740	...	...	...	...	(D)	...
By water users organizations.....dollars...	45,916	32,860	(D)	(D)	...	...	...

See footnote at end of table.

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

Arkansas River (VI-B)							
Item (For definitions and explanations, see text)	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users	
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
Total entering conveyance systems.....organizations... 							

D Data not shown to avoid disclosure of information for individual organizations.

IRRIGATION OF AGRICULTURAL LANDS

State Table 5.—NUMBER OF IRRIGATION ORGANIZATIONS, TYPE OF SERVICE, NEW CAPITAL INVESTMENT,

Item (For definitions and explanations, see text)		New Mexico, total				Colorado River above Lees Ferry excluding Green and Gunnison Rivers			
		(IV-D)							
		Size of organization, by total water conveyed							
	0-999 acre-feet	1,000- 9,999 acre-feet	10,000- 99,999 acre-feet	100,000 or more acre-feet	0-999 acre-feet	1,000- 9,999 acre-feet	10,000- 99,999 acre-feet	100,000 or more acre-feet	
1	Number of organizations.....organizations...	336	95	13	3	16	17	6	...
TYPE OF SERVICE									
2	All water directly from surface and ground sources.....organizations...	326	87	12	3	16	16	6	...
3	Total water conveyed.....acre-feet...	89,747	220,640	323,287	785,733	4,477	56,251	145,186	...
4	Water delivered.....acre-feet...	73,644	171,963	228,806	455,956	3,694	45,273	98,392	...
5	To farm and residential users only.....organizations...	323	81	10	2	16	16	4	...
6	To farm and residential users only.....acre-feet...	73,918	159,978	213,396	261,531	3,694	45,273	82,982	...
7	To farm and residential users and other irrigation organizations.....organizations...	3	6	2	1	...	...	2	...
8	Water to farm and residential users.....acre-feet...	1,287	8,383	11,559	163,150	...	...	11,559	...
9	Water to other irrigation organizations.....acre-feet...	439	3,602	3,851	31,275	...	...	3,851	...
10	To other irrigation organizations only.....organizations...	...	...	...	...	...	...	...	...
11	To other irrigation organizations only.....acre-feet...	...	...	...	...	...	...	...	...
12	Part of water from other organizations.....organizations...	4	6	1	...	...	...	...	...
13	Total water conveyed.....acre-feet...	2,031	20,573	10,400	...	...	...	...	...
14	From surface and ground water sources.....acre-feet...	573	3,053	1-3,400	...	...	...	...	...
15	From other irrigation organizations.....acre-feet...	1,458	17,520	13,800	...	...	...	...	...
16	Water delivered.....acre-feet...	1,680	11,184	6,200	...	...	...	...	...
17	To farm and residential users only.....organizations...	4	5	1	...	...	...	...	...
18	To farm and residential users only.....acre-feet...	1,680	8,700	6,200	...	...	...	...	...
19	To farm and residential users and other irrigation organizations.....organizations...	...	1	...	...	...	...	...	...
20	Water to farm and residential users.....acre-feet...	...	1,680	...	...	...	...	...	...
21	Water to other irrigation organizations.....acre-feet...	...	804	...	...	...	...	...	...
22	To other irrigation organizations only.....organizations...	...	...	...	...	...	...	...	...
23	To other irrigation organizations only.....acre-feet...	...	...	...	...	...	...	...	...
24	All of water from other organizations.....organizations...	5	2	...	...	...	1	...	...
25	Total water conveyed.....acre-feet...	2,342	4,851	...	...	...	3,851	...	...
26	Water delivered.....acre-feet...	2,000	3,000	...	...	...	2,100	...	...
27	To farm and residential users only.....organizations...	5	2	...	...	...	1	...	...
28	To farm and residential users only.....acre-feet...	2,000	3,000	...	...	...	2,100	...	...
29	To farm and residential users and other irrigation organizations.....organizations...	...	...	...	...	...	...	...	...
30	Water to farm and residential users.....acre-feet...	...	...	...	...	...	...	...	...
31	Water to other irrigation organizations.....acre-feet...	...	...	...	...	...	...	...	...
32	To other irrigation organizations only.....organizations...	...	...	...	...	...	...	...	...
33	To other irrigation organizations only.....acre-feet...	...	...	...	...	...	...	...	...
34	No water conveyed.....organizations...	1	...	...	...	...	...	...	...
WATER FROM OTHER SOURCES									
35	Organizations reporting no water from other sources used on land served by the organization.....organizations...	332	94	11	3	16	17	6	...
36	acres served.....acres served...	70,247	116,018	56,062	199,031	4,899	22,606	27,634	...
37	acres irrigated.....acres irrigated...	45,861	90,216	45,266	169,310	2,027	18,556	21,646	...
38	Organizations reporting water from other sources used on land served by the organization.....organizations...	3	1	2	...	...	...	...	...
39	acres served.....acres served...	2,238	2,500	27,805	...	...	...	...	...
40	acres irrigated.....acres irrigated...	1,058	2,000	22,432	...	...	...	...	...
NEW CAPITAL INVESTMENT, 1950-1959									
41	Expenditures for additional new works and equipment for irrigation and drainage, January 1, 1950-December 31, 1959.....organizations...	145	60	5	2	3	10	3	...
42	dollars.....dollars...	1,191,952	560,835	148,735	11,764,740	6,201	135,750	22,863	...
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959									
43	Total entering conveyance systems in basin.....organizations...	335	95	13	3	16	17	6	...
44	acre-feet.....acre-feet...	90,320	223,693	319,887	785,733	4,477	56,251	145,186	...
45	From another drainage basin.....organizations...	1	...	1	...	1	...	1	...
46	acre-feet.....acre-feet...	242	...	1,661	...	242	...	1,661	...
47	From Drainage Basin Number.....D. B. No. ....	...	...	...	...	...	...	...	...
48	From natural sources within basin.....organizations...	329	93	12	3	15	16	5	...
49	Surface water.....organizations...	90,078	223,693	318,226	785,733	4,235	56,251	143,525	...
50	acre-feet.....acre-feet...	321	92	12	3	13	16	5	...
51	Ground water.....organizations...	86,772	221,161	305,586	759,233	4,219	56,251	143,525	...
52	From other organizations in the basin.....organizations receiving...	17	6	2	1	2	...	...	...
53	acre-feet.....acre-feet...	3,506	2,532	12,640	26,500	16	...	...	...
54	From other organizations in the basin.....organizations receiving...	9	8	1	...	...	1	...	...
55	acre-feet.....acre-feet...	3,800	22,371	13,800	...	...	3,851	...	...
56	Total leaving conveyance systems.....organizations...	335	95	13	3	16	17	6	...
57	acre-feet.....acre-feet...	93,681	241,658	329,836	754,458	4,477	60,102	141,335	...
58	Conveyance loss in basin.....organizations...	314	93	13	3	14	17	6	...
59	acre-feet.....acre-feet...	14,346	55,178	92,841	329,777	783	10,709	41,947	...
60	Conveyed to another drainage basin.....organizations...	...	...	...	...	...	...	...	...
61	acre-feet.....acre-feet...	...	...	...	...	...	...	...	...
62	To drainage basin number.....D. B. No. ....	...	...	...	...	...	...	...	...
63	Delivered for use in the basin.....organizations...	79,335	186,480	236,995	424,681	3,694	49,393	99,388	...
64	acre-feet.....acre-feet...	334	95	13	3	16	17	6	...
65	To farm irrigation water users.....organizations...	77,611	178,294	221,580	423,132	3,694	46,406	85,296	...
66	acre-feet.....acre-feet...	46	24	5	1	...	5	3	...
67	To residential water users.....organizations...	1,274	3,447	9,575	1,549	...	967	9,245	...
68	acre-feet.....acre-feet...	2	7	4	...	...	3	3	...
69	For other use.....organizations...	450	4,739	5,840	...	...	2,020	4,847	...
70	acre-feet.....acre-feet...	3	7	1	1	...	...	1	...
71	Delivered to other irrigation organizations.....organizations delivered...	439	4,406	3,851	31,275	...	...	3,851	...
72	acre-feet.....acre-feet...	...	...	...	...	...	...	...	...
AVERAGE DELIVERY OF IRRIGATION WATER PER ACRE, 1959									
73	Per acre irrigated, as reported by irrigation organization:								
74	All organizations.....acre-feet...	1.7	2.0	3.7	2.5	1.9	2.5	6.4	...
75	Organizations reporting no water from other sources used on land served by the organization.....organizations...	332	94	11	3	16	17	6	...
76	acre-feet.....acre-feet...	1.7	2.0	3.7	2.5	1.9	2.5	5.1	...

¹Water was transferred to the basin and released to natural stream channels in excess of the quantity of surface water withdrawn by irrigation organizations. The net effect was to increase the available surface water supply in the basin or State.

AND WATER CONVEYED, BY SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUS OF 1959

Rio Grande below Fort Quitman, Texas				Rio Grande River above Fort Quitman, Texas			Arkansas River	
(V-B)				(V-C)			(VI-B)	
Size of organization, by total water conveyed								
0-999 acre-feet	1,000- 9,999 acre-feet	10,000- 99,999 acre-feet	100,000 or more acre-feet	0-999 acre-feet	1,000- 9,999 acre-feet	10,000 or more acre-feet	0-999 acre-feet	1,000 or more acre-feet
43	12	3	...	214	43	3	55	12
40	12	3	...	210	37	2	52	11
11,106	33,651	144,549	...	56,611	75,865	682,987	14,381	135,545
9,016	24,247	105,259	...	48,252	57,661	403,975	11,606	75,825
40	10	3	...	209	33	1	4,890	11
9,016	18,242	105,259	...	48,252	51,681	209,550	9,880	75,825
...	2	...	...	1	4	1	3	...
...	5,340	...	...	...	3,043	163,150	1,287	...
...	665	...	...	...	2,937	31,275	439	...
...
...
1	...	...	...	...	5	1	3	1
618	...	...	...	...	17,530	10,400	1,413	3,043
253	...	...	...	...	160	1,340	320	2,893
365	...	...	...	...	17,370	13,800	1,093	150
548	...	...	...	...	8,700	6,200	1,132	2,484
1	...	...	...	...	5	1	3	...
548	...	...	...	...	8,700	6,200	1,132	...
...
...
...
...
1	...	...	...	4	1	...	...	...
300	...	...	...	2,042	1,000	...	...	...
290	...	...	...	1,710	900	...	...	...
1	...	...	...	4	1	...	...	...
290	...	...	...	1,710	900	...	...	...
...
...
...
...
...
1	...	...	...	...	...	...	...	...
41	12	2	...	213	42	3	54	12
7,857	15,337	15,526	...	44,052	49,014	162,190	13,203	67,618
4,766	12,077	15,000	...	30,561	36,968	134,980	7,936	54,463
1	...	1	...	1	1	...	1	...
1,800	...	25,055	...	88	2,500	...	350	...
720	...	19,682	...	88	2,000	...	250	...
21	10	3	...	98	24	1	21	8
1,041,875	213,950	125,872	...	111,360	100,705	11,195,000	13,816	601,840
42	12	3	...	214	43	3	55	12
11,359	33,651	144,549	...	56,611	76,025	679,587	14,701	138,438
...	...	...	...	...	...	...	1	...
...	...	...	...	...	...	...	480	...
...
41	12	3	...	210	42	3	55	12
11,359	33,651	144,549	...	56,611	76,025	679,587	14,221	138,438
39	12	3	...	206	41	3	55	12
10,849	33,651	132,149	...	53,831	74,150	653,087	14,221	138,438
2	...	...	...	13	2	1	...	...
510	...	12,400	...	2,780	1,875	26,500	...	...
2	...	...	...	6	3	1	...	...
665	...	...	...	2,042	18,370	13,800	1,093	150
42	12	3	...	214	43	3	55	12
12,024	32,986	144,549	...	58,653	91,458	662,112	15,355	137,784
40	11	3	...	197	54	3	...	...
1,720	7,921	38,297	...	8,211	26,798	283,212	3,056	59,379
...	...	...	...	1	...	...	...	...
...	...	...	...	480	...	...	...	...
...
42	12	3	...	213	43	3	55	12
10,304	25,065	106,252	...	49,962	64,660	378,900	12,299	78,405
9,683	23,562	105,259	...	49,135	62,370	377,051	12,033	77,067
7	1	...	...	27	15	2	11	67
171	20	...	...	827	1,954	1,849	266	438
2	...	...	...	...	...	...	...	...
450	1,483	993	...	...	336	...	...	900
...	2	...	...	...	4	1	3	1
...	665	2,937	91,275	439	804
1.8	1.9	3.0	...	1.6	1.6	2.8	1.5	1.4
41	12	2	...	213	42	3	54	12
2.0	1.9	2.3	...	1.6	1.7	2.8	1.5	1.4

NORTH DAKOTA

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IRRIGATION OF AGRICULTURAL LANDS

State Table 1.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY DRAINAGE BASINS:
CENSUSES OF 1959 AND 1950

Item (For definitions and explanations, see text)	The State	Item (For definitions and explanations, see text)	The State
Total acres irrigated in Census year.....1959...	47,636	WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959—Continued	
1949...	35,759	Total leaving conveyance systems.....organizations...	9
Irrigation organizations.....organizations 1959...	12	acre-feet...	108,724
1949...	6	Conveyance loss in basin.....organizations...	5
Service area, 1959:		acre-feet...	36,802
Farm area reported served, by organizations.....acres 1959...	44,958	Conveyed to another drainage basin.....organizations...	...
Farm area reported irrigated, by organizations.....acres 1959...	39,849	acre-feet...	...
Water users served, total.....water users 1959...	234	To drainage basin number.....D. B. No....	...
Farm irrigation water users.....water users 1959...	234	Delivered for use in the basin.....organizations...	9
Residential water users.....water users 1959...	...	acre-feet...	71,922
Other water users.....water users 1959...	...	To farm irrigation water users.....organizations...	9
LAND IRRIGATED BY SOURCE OF WATER, 1959		acre-feet...	71,922
Ground water sources.....acres...	973	For other use.....organizations...	...
Surface water sources.....acres...	46,683	acre-feet...	...
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959		From another drainage basin.....organizations...	1
Total entering conveyance systems in basin.....organizations...	9	acre-feet...	100,000
acre-feet...	108,724	From drainage basin number.....D. B. No....	...
From another drainage basin.....organizations...	1	From natural sources within basin.....organizations...	9
acre-feet...	100,000	acre-feet...	8,724
From drainage basin number.....D. B. No....	...	Surface water.....organizations...	9
From natural sources within basin.....organizations...	9	acre-feet...	8,724
acre-feet...	8,724	Ground water.....organizations...	...
Surface water.....organizations...	9	acre-feet...	...
acre-feet...	8,724	From other organizations in the basin.....organizations receiving...	...
Ground water.....organizations...	...	acre-feet...	...
acre-feet...	...		
From other organizations in the basin.....organizations receiving...	...	NEW CAPITAL INVESTMENT, 1950-1959	
acre-feet...	...	Expenditures for additional new works and equipment for irrigation and drainage, January 1, 1950-December 31, 1959.....organizations...	5
		dollars...	613,767

State Table 2.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950

Item (For definitions and explanations, see text)	North Dakota, total	Item (For definitions and explanations, see text)	North Dakota, total
TYPE OF SERVICE, 1959			
Irrigation organizations, total	12	All water directly from surface and ground water sources.....organizations...	9
number.....organizations 1959...	6	Total water conveyed.....acre-feet...	108,724
Area irrigated as reported by organizations.....acres 1959...	39,849	Water delivered.....acre-feet...	71,922
Farm water users served directly.....water users 1959...	34,405	To farm and residential users only.....organizations...	9
Total water conveyed.....acre-feet 1959...	234	.....acre-feet...	71,922
TYPE OF ORGANIZATION			
Mutual:		To farm and residential users and other irrigation organizations.....organizations...	...
Unincorporated.....organizations 1959...	1	Water to farm and residential users.....acre-feet...	...
Farm area irrigated directly.....acres 1959...	(D)	Water to other irrigation organizations.....acre-feet...	...
Farm water users served directly.....water users 1959...	(D)	To other irrigation organizations only.....organizations...	...
Total water conveyed.....acre-feet 1959...	(D)	.....acre-feet...	...
Incorporated.....organizations 1959...	1	Part of water from other organizations.....organizations...	...
Farm area irrigated directly.....acres 1959...	(D)	Total water conveyed.....acre-feet...	...
Farm water users served directly.....water users 1959...	(D)	From surface and ground water sources.....acre-feet...	...
Total water conveyed.....acre-feet 1959...	(D)	From other irrigation organizations.....acre-feet...	...
District.....organizations 1959...	6	Water delivered.....acre-feet...	...
Farm area irrigated directly.....acres 1959...	(D)	To farm and residential users only.....organizations...	...
Farm water users served directly.....water users 1959...	(D)	.....acre-feet...	...
Total water conveyed.....acre-feet 1959...	(D)	To farm and residential users and other irrigation organizations.....organizations...	...
U. S. Bureau of Reclamation; projects and storage systems operated by bureau.....organizations 1959...	3	Water to farm and residential users.....acre-feet...	...
Farm area irrigated directly.....acres 1959...	1,319	Water to other irrigation organizations.....acre-feet...	...
Farm water users served directly.....water users 1959...	20	To other irrigation organizations only.....organizations...	...
Total water conveyed.....acre-feet 1959...	3,908	.....acre-feet...	...
U. S. Bureau of Reclamation; operated by water users.....organizations 1959...	4	All of water from other organizations.....organizations...	...
Farm area irrigated directly.....acres 1959...	1849	Total water conveyed.....acre-feet...	...
Farm water users served directly.....water users 1959...	25,376	Water delivered.....acre-feet...	...
Total water conveyed.....acre-feet 1959...	122	To farm and residential users only.....organizations...	...
U. S. Bureau of Indian Affairs.....organizations 1959...	...	.....acre-feet...	...
Farm area irrigated directly.....acres 1959...	...	To farm and residential users and other irrigation organizations.....organizations...	...
Farm water users served directly.....water users 1959...	...	Water to farm and residential users.....acre-feet...	...
Total water conveyed.....acre-feet 1959...	...	Water to other irrigation organizations.....acre-feet...	...
Commercial.....organizations 1959...	...	To other irrigation organizations only.....organizations...	...
Farm area irrigated directly.....acres 1959...	...	.....acre-feet...	...
Farm water users served directly.....water users 1959...	...	No water conveyed.....organizations...	3
Total water conveyed.....acre-feet 1959...	...	WATER FROM OTHER SOURCES	
State.....organizations 1959...	...	Organizations reporting no water from other sources used on land served by the organization.....organizations...	9
Farm area irrigated directly.....acres 1959...	1	.....acres served...	80,203
Farm water users served directly.....water users 1959...	...	.....acres irrigated...	72,012
Total water conveyed.....acre-feet 1959...	...	Water delivered to farms.....acre-feet...	152,922
City.....organizations 1959...	1	.....acre-feet per acre...	2.1
Farm area irrigated directly.....acres 1959...	...	Organizations reporting water from other sources used on land served by the organization.....organizations...	...
Farm water users served directly.....water users 1959...	...	.....acres served...	...
Total water conveyed.....acre-feet 1959...	...	.....acres irrigated...	...
	...	Water delivered to farms.....acre-feet...	...
	...	.....acre-feet per acre...	...

D Data not shown to avoid disclosure of information for individual organizations.

State Table 2.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Continued

Item (For definitions and explanations, see text)	North Dakota, total	Item (For definitions and explanations, see text)	North Dakota, total
WATER DELIVERED PER ACRE		SIZE OF ORGANIZATION—Continued	
Organizations reporting no water from other sources used on same land:		Size of organization (acre-feet of water delivered directly to farms):	
0.1 to 0.9 acre-feet per acre.....organizations...	2	None.....organizations...	3
1.0 to 1.9 acre-feet per acre.....organizations...	7,375	1 to 299 acre-feet.....organizations...	154
2.0 to 2.9 acre-feet per acre.....organizations...	15,001	300 to 999 acre-feet.....organizations...	2
3.0 to 3.9 acre-feet per acre.....organizations...	48,465	1,000 to 2,999 acre-feet.....organizations...	1,228
4.0 to 4.9 acre-feet per acre.....organizations...	...	3,000 to 9,999 acre-feet.....organizations...	...
5.0 to 5.9 acre-feet per acre.....organizations...	1,171	10,000 to 29,999 acre-feet.....organizations...	4
6.0 to 6.9 acre-feet per acre.....organizations...	...	30,000 to 99,999 acre-feet.....organizations...	19,322
7.0 to 7.9 acre-feet per acre.....organizations...	...	100,000 or more acre-feet.....organizations...	1
8.0 to 9.9 acre-feet per acre.....organizations...	...	...	16,218
10.0 or more acre-feet per acre.....organizations...	...	...	...
...	...	...	1
...	...	...	116,000
SIZE OF ORGANIZATION		Size of organization (acre-feet of water conveyed):	
Size of organization (number of farm irrigation water users served directly):		None.....organizations...	3
None.....organizations...	3	1 to 299 acre-feet.....organizations...	1
1 to 3.....organizations...	1	300 to 999 acre-feet.....organizations...	154
4 to 9.....organizations...	3	1,000 to 2,999 acre-feet.....organizations...	2
10 to 29.....organizations...	12	3,000 to 9,999 acre-feet.....organizations...	1,410
30 to 99.....organizations...	4	10,000 to 29,999 acre-feet.....organizations...	...
100 to 299.....organizations...	71	30,000 to 99,999 acre-feet.....organizations...	...
300 to 999.....organizations...	1	100,000 or more acre-feet.....organizations...	4
1,000 or more.....organizations...	51	...	21,870
...	...	...	1
...	...	...	20,290
...
...	338	...	...
...	...	...	1
...	...	...	212,000

State Table 3.—LAND IRRIGATED BY SOURCE OF WATER, BY DRAINAGE BASINS: CENSUS OF 1959

Item (For definitions and explanations, see text)	North Dakota, total	Item (For definitions and explanations, see text)	North Dakota, total
Total acres irrigated.....farms reporting...	471	LAND IRRIGATED BY SOURCE OF WATER TO INDIVIDUAL FARMS 1959—Continued	
acres...	47,656	Surface sources on farm.....farms reporting...	156
Acres irrigated by sprinklers.....farms reporting...	101	acres...	9,799
acres...	3,880	Surface sources on farm only.....farms reporting...	151
Sprinklers only.....farms reporting...	83	acres...	9,145
acres...	3,263	Irrigation organization sources.....farms reporting...	295
LAND IRRIGATED, BY SOURCE OF WATER TO INDIVIDUAL FARMS, 1959		acres...	36,884
Ground water sources on farm.....farms reporting...	25	Irrigation organizations sources only.....farms reporting...	290
acres...	973	acres...	36,017
Ground water sources on farm only....farms reporting...	24	Both farm ground water sources and surface sources.....farms reporting...	1
acres...	943	acres...	45
		Both irrigation organization and farm ground water or farm surface sources.....farms reporting...	5
		acres...	1,506

IRRIGATION OF AGRICULTURAL LANDS

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950

Item (For definitions and explanations, see text)	North Dakota, total						
	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users	
Irrigation organizations.....organizations 1959...	12	1	1	6	3	4	1
1949.....	6	...	1	4	...	...	1
Service area, 1959:							
Area served, as reported							
by organizations.....acres...	44,956	(D)	(D)	(D)	2,039	28,740	...
Area irrigated, as reported							
by organizations.....acres...	39,849	(D)	(D)	(D)	1,319	25,376	...
Water users served, 1959, total.....water users...	234	(D)	(D)	(D)	20	122	...
Farm irrigation water users.....water users...	234	(D)	(D)	(D)	20	122	...
Residential water users.....water users...	...	...	...	...	...	...	...
Other water users.....water users...	...	...	...	...	...	...	...
TYPE OF SERVICE, 1959							
All water directly from surface and ground							
water sources.....organizations...	9	1	1	6	1	3	...
Total water conveyed.....acre-feet...	108,724	(D)	(D)	(D)	3,908	90,052	...
Water delivered.....acre-feet...	72,922	(D)	(D)	(D)	3,160	55,980	...
To farm and residential users							
only.....organizations...	9	1	1	6	1	3	...
.....acre-feet...	71,922	(D)	(D)	(D)	3,160	55,980	...
To farm and residential users and other							
irrigation organizations.....organizations...	...	...	...	...	...	...	...
Water to farm and residential							
users.....acre-feet...	...	...	...	...	...	...	...
Water to other irrigation							
organizations.....acre-feet...	...	...	...	...	...	...	...
To other irrigation organizations							
only.....organizations...	...	...	...	...	...	...	...
.....acre-feet...	...	...	...	...	...	...	...
Part of water from other							
organizations.....organizations...	...	...	...	...	...	...	...
Total water conveyed.....acre-feet...	...	...	...	...	...	...	...
From surface and ground water							
sources.....acre-feet...	...	...	...	...	...	...	...
From other irrigation organizations.....acre-feet...	...	...	...	...	...	...	...
Water delivered.....acre-feet...	...	...	...	...	...	...	...
To farm and residential users							
only.....organizations...	...	...	...	...	...	...	...
.....acre-feet...	...	...	...	...	...	...	...
To farm and residential users and other							
irrigation organizations.....organizations...	...	...	...	...	...	...	...
Water to farm and residential							
users.....acre-feet...	...	...	...	...	...	...	...
Water to other irrigation							
organizations.....acre-feet...	...	...	...	...	...	...	...
To other irrigation organizations							
only.....organizations...	...	...	...	...	...	...	...
.....acre-feet...	...	...	...	...	...	...	...
All of water from other organizations.....organizations...	...	...	...	...	...	...	...
Total water conveyed.....acre-feet...	...	...	...	...	...	...	...
Water delivered.....acre-feet...	...	...	...	...	...	...	...
To farm and residential users							
only.....organizations...	...	...	...	...	...	...	...
.....acre-feet...	...	...	...	...	...	...	...
To farm and residential users and other							
irrigation organizations.....organizations...	...	...	...	...	...	...	...
Water to farm and residential							
users.....acre-feet...	...	...	...	...	...	...	...
Water to other irrigation							
organizations.....acre-feet...	...	...	...	...	...	...	...
To other irrigation organizations							
only.....organizations...	...	...	...	...	...	...	...
.....acre-feet...	...	...	...	...	...	...	...
No water conveyed.....organizations...	3	...	...	...	2	1	1
WATER FROM OTHER SOURCES							
Organizations reporting no water from other							
sources used on the land served by the							
organization.....organizations...	9	1	1	6	1	3	...
.....acres served...	80,203	(D)	(D)	(D)	2,039	63,985	...
.....acres irrigated...	72,012	(D)	(D)	(D)	1,319	57,539	...
.....water delivered to farms (acre-feet)...	152,922	(D)	(D)	(D)	3,160	136,980	...
.....acre-feet per acre...	2.1	(D)	(D)	(D)	2.4	2.4	...
Organizations reporting water from other							
sources used on land served by the							
organization.....organizations...	...	...	...	...	...	...	...
.....acres served...	...	...	...	...	...	...	...
.....acres irrigated...	...	...	...	...	...	...	...
.....water delivered to farms (acre-feet)...	...	...	...	...	...	...	...
.....acre-feet per acre...	...	...	...	...	...	...	...
NEW CAPITAL INVESTMENT, 1950-1959							
Expenditures for additional new works and							
equipment for irrigation and drainage,							
January 1, 1950-December 31, 1959.....organizations...	5	...	...	3	1	2	1
By U. S. B. R.....dollars...	566,860	...	...	505,510	61,350	505,510	...
By water users organizations.....dollars...	46,907	...	...	6,297	...	40,650	40,650

See footnotes at end of table.

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

Item (For definitions and explanations, see text)	North Dakota, total						
	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users	
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
Total entering conveyance systems.....organizations... acre-feet...	108,724	1 (D)	1 (D)	6 (D)	1 3,908	3 90,052	...
From another drainage basin.....organizations... acre-feet...	100,000	1 ...	1 ...	1 (D)	1 ...	1 100,000	...
From drainage basin.....D. S. No.....	...	...	...	...	...	...	...
From sources within basin.....organizations... acre-feet...	8,724	1 (D)	1 (D)	6 (D)	1 3,908	3 1-9,948	...
Surface water.....organizations... acre-feet...	8,724	1 ...	1 (D)	6 (D)	1 3,908	3 1-9,948	...
Ground water.....organizations... acre-feet...	...	...	...	...	...	...	...
From other organizations in the basin.....organizations receiving... acre-feet...	...	...	...	...	...	...	...
Total leaving conveyance systems.....organizations... acre-feet...	108,724	1 (D)	1 (D)	6 (D)	1 3,908	3 90,052	...
Conveyance loss in basin.....organizations... acre-feet...	36,802	5 ...	4 ...	4 36,054	1 748	2 34,072	...
Conveyed to another drainage basin.....organizations... acre-feet...	...	...	...	...	...	...	...
To drainage basin number.....D. S. No.....	...	...	...	...	...	...	...
Delivered for use in the basin.....organizations... acre-feet...	71,922	1 (D)	1 (D)	6 (D)	1 3,160	3 55,980	...
To farm irrigation water users.....organizations... acre-feet...	71,922	1 (D)	1 (D)	6 (D)	1 3,160	3 55,980	...
To domestic water users.....organizations... acre-feet...	...	...	...	...	...	...	...
For other use.....organizations... acre-feet...	...	...	...	...	...	...	...
Delivered to other irrigation organizations..... organizations delivering... acre-feet...	...	...	...	...	...	...	...
SIZE OF ORGANIZATION, 1959							
Size of organization (number of farm irrigation water users):							
None.....organizations...	4	(D)	(D)	(D)	2	...	1
1 to 3 water users.....organizations...	1	(D)	(D)	(D)	...	...	...
4 to 9 water users.....organizations...	2	(D)	(D)	(D)	...	1	...
10 to 29 water users.....organizations...	3	(D)	(D)	(D)	1	1	...
30 to 99 water users.....organizations...	1	(D)	(D)	(D)	...	1	...
100 to 299 water users.....organizations...	...	...	...	...	...	...	...
300 to 999 water users.....organizations...	1	(D)	(D)	(D)	...	1	...
1,000 or more water users.....organizations...	...	...	...	...	...	...	...
Size of organization (acre-feet of water delivered directly to farms):							
None.....organizations...	3	(D)	(D)	(D)	2	...	1
1 to 299 acre-feet.....organizations...	1	(D)	(D)	(D)	...	...	...
300 to 999 acre-feet.....organizations...	2	(D)	(D)	(D)	...	...	...
1,000 to 2,999 acre-feet.....organizations...	...	...	...	...	...	...	...
3,000 to 9,999 acre-feet.....organizations...	4	(D)	(D)	(D)	1	1	...
10,000 to 29,999 acre-feet.....organizations...	1	(D)	(D)	(D)	...	1	...
30,000 to 99,999 acre-feet.....organizations...	...	...	...	...	...	...	...
100,000 or more acre-feet.....organizations...	1	(D)	(D)	(D)	...	1	...
Size of organization (acre-feet of water conveyed):							
None.....organizations...	3	(D)	(D)	(D)	2	...	1
1 to 299 acre-feet.....organizations...	1	(D)	(D)	(D)	...	...	...
300 to 999 acre-feet.....organizations...	2	(D)	(D)	(D)	...	...	...
1,000 to 2,999 acre-feet.....organizations...	...	...	...	...	...	...	...
3,000 to 9,999 acre-feet.....organizations...	4	(D)	(D)	(D)	1	1	...
10,000 to 29,999 acre-feet.....organizations...	1	(D)	(D)	(D)	...	1	...
30,000 to 99,999 acre-feet.....organizations...	...	...	...	...	...	...	...
100,000 or more acre-feet.....organizations...	1	(D)	(D)	(D)	...	1	...

D Data not shown to avoid disclosure of information for individual organizations.

²Water was transferred to the basin and released to natural stream channels in excess of the quantity of surface water withdrawn by irrigation organizations. The net effect was to increase the available surface water supply in the basin or State.

OREGON

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IRRIGATION OF AGRICULTURAL LANDS

State Table 1.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS,

Item (For definitions and explanations, see text)	The State	North Pacific Coast, total	Excluding Columbia River (I-A)						
			Total	Pacific Coast direct	Rogue River				
					Total	Rogue River direct	Illinois River	Applegate River	Bear Creek
			(1)		(4a)	(4b)	(4c)	(4d)	
1 Total acres irrigated in Census year.....1959...	1,384,284	967,000	100,000	30,000	70,000	28,000	4,000	14,000	24,000
2 .....1949...	1,337,517	856,788	86,107	15,172	70,935	34,905	4,075	12,466	19,489
3 Irrigation organizations.....organizations 1959...	650	583	111	5	106	41	13	39	16
4 .....1949...	755	681	131	6	125	43	20	45	20
5 Service area, 1959:									
6 Farm area reported served by organizations.....acres 1959...	903,222	655,152	62,754	905	61,849	27,284	2,656	12,465	19,444
7 Farm area reported irrigated by organizations.....acres 1959...	846,182	619,276	59,524	779	58,745	26,837	2,355	11,415	18,138
8 Water users served, total.....water users 1959...	33,437	26,759	9,824	17	9,807	3,277	70	299	6,161
9 Farm irrigation water users.....water users 1959...	17,712	15,875	4,634	17	4,617	3,142	48	292	1,135
10 Residential water users.....water users 1959...	14,690	9,850	4,733	...	4,733	134	18	7	4,574
11 Other water users.....water users 1959...	1,035	1,034	457	...	457	1	4	...	452
12 LAND IRRIGATED BY SOURCE OF WATER, 1959									
13 Ground water sources.....acres...	198,941	156,000	5,000	1,000	4,000	2,000	1,000	1,000	...
14 Surface water sources.....acres...	1,185,343	811,000	95,000	29,000	66,000	26,000	3,000	13,000	24,000
15 WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959									
16 Total entering conveyance systems in basin.....organizations...	646	579	111	5	106	41	13	39	16
17 .....acre-feet...	4,182,706	2,999,982	279,610	3,313	254,242	190,942	9,258	47,486	53,442
18 From another drainage basin.....organizations...	3	4	2	...	1	1	...	...	2
19 .....acre-feet...	28,647	42,948	36,356	...	14,301	14,301	...	...	46,886
20 From drainage basin number.....D. B. No. ....	...	...	...	...	...	II-A-7	...	...	(1)
21 From natural sources within basin.....organizations...	642	575	111	5	106	41	13	39	15
22 .....acre-feet...	4,154,059	2,957,034	243,254	3,313	239,941	176,641	9,258	47,486	6,556
23 Surface water.....organizations...	631	564	111	5	106	41	13	39	15
24 .....acre-feet...	3,891,300	2,712,694	236,054	3,313	232,741	169,441	9,258	47,486	6,556
25 Ground water.....organizations...	18	17	1	...	1	1	...	...	...
26 .....acre-feet...	262,799	244,340	7,200	...	7,200	7,200	...	...	...
27 From other organizations in the basin.....organizations receiving...	19	12	1	...	1	1	...	...	...
28 .....acre-feet...	278,847	217,033	9,987	...	9,987	9,987	...	...	...
29 Total leaving conveyance systems.....organizations...	646	579	111	5	106	41	13	39	16
30 .....acre-feet...	4,182,706	2,999,982	279,610	3,313	254,242	190,942	9,258	47,486	53,442
31 Conveyance loss in basin.....organizations...	499	441	79	5	74	30	12	25	9
32 .....acre-feet...	730,281	582,043	51,877	739	51,138	31,684	1,795	6,638	11,021
33 Conveyed to another drainage basin.....organizations...	4	2	1	...	...	2	...	...	...
34 .....acre-feet...	503,598	116,565	22,055	...	...	46,886	...	...	...
35 To drainage basin number.....D. B. No. ....	...	...	...	...	...	(2)	...	...	...
36 Delivered for use in the basin.....organizations...	645	578	111	5	106	40	13	39	16
37 .....acre-feet...	2,948,827	2,301,374	205,678	2,574	203,104	112,372	7,463	40,848	42,421
38 To farm irrigation water users.....organizations...	645	578	111	5	106	40	13	39	16
39 .....acre-feet...	2,885,053	2,272,636	199,162	2,574	196,588	111,723	7,435	40,842	36,588
40 To residential water users.....organizations...	44	40	10	...	10	3	1	5	5
41 .....acre-feet...	31,413	25,113	6,043	...	6,043	448	18	6	5,571
42 For other use.....organizations...	14	14	3	...	3	1	1	1	1
43 .....acre-feet...	32,361	3,625	473	...	473	201	10	...	262
44 Delivered to other irrigation organizations.....organizations delivering...	11	9	1	...	1	1	...	...	...
45 .....acre-feet...	278,847	217,033	9,987	...	9,987	9,987	...	...	...
46 Average delivery of irrigation water per acre irrigated as reported by organizations.....acre-feet...	3.4	3.7	3.4	3.3	3.4	4.2	3.2	3.6	2.0
47 NEW CAPITAL INVESTMENT, 1950-1959									
48 Expenditures for additional new works and equipment for irrigation and drainage, Jan. 1, 1950-Dec. 31, 1959.....organizations...	277	253	52	2	50	22	9	16	4
49 .....dollars...	9,588,868	4,489,697	1,567,812	4,100	1,563,712	1,323,509	31,750	146,978	61,775

¹22,055 acre-feet from D. B. No. II-A-1, 24,831 acre-feet from D. B. No. I-A-4d. ²22,055 acre-feet to D. B. No. II-A-1, 24,831 acre-feet to D. B. No. I-A-4d. ³13,047 acre-feet to D. B. No. I-B-5a, 79,968 acre-feet to D. B. No. I-B-5c.

BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950

Columbia River													
Total	Columbia River below Snake River (I-B)												
	Columbia River direct				Willamette River				Hood River	Deschutes River			
	Total	Total	Below The Dalles	Above The Dalles	Total	Below Salem	Salem to Albany	Above Albany		Total	Deschutes River direct below Madras	Squaw Creek and Deschutes River direct above Madras (2b, d)	Crooked River
			(1a)	(1b)		(2a)	(2b)	(2c)	(3)		(5a)		(5c)
867,000	463,000	36,000	19,000	17,000	151,000	73,000	43,000	35,000	19,000	152,000	33,000	79,000	40,000
770,681	354,841	23,803	11,026	12,779	73,585	31,006	23,041	19,538	19,696	147,367	20,255	75,808	51,304
472	175	19	11	8	11	4	4	3	10	25	9	8	8
550	216	28	13	15	15	6	5	4	14	38	12	15	13
592,398	245,981	14,901	3,302	11,599	15,123	2,360	9,477	3,286	26,555	139,768	11,030	104,067	24,671
559,752	237,480	13,136	2,742	10,394	11,884	1,263	8,186	2,435	25,512	139,283	10,730	104,027	24,526
16,935	11,844	4,707	4,132	575	415	52	253	110	1,982	2,499	208	1,693	558
11,241	6,441	387	112	275	344	52	227	65	1,829	2,075	183	1,526	366
5,117	4,826	3,816	3,516	300	41	...	...	41	138	397	9	158	190
577	577	504	504	...	30	...	26	4	15	27	16	9	2
151,000	92,000	7,000	6,000	1,000	63,000	23,000	22,000	18,000	...	3,000	1,000	1,000	1,000
716,000	371,000	29,000	13,000	16,000	88,000	50,000	21,000	17,000	19,000	149,000	32,000	78,000	39,000
468	173	19	11	8	11	4	4	3	10	25	9	8	8
2,742,427	1,316,521	104,320	11,362	92,958	46,933	1,468	31,245	14,220	85,842	725,041	52,656	639,156	126,244
3	1	...	...	...	...	...	...	...	...	...	1	...	1
28,647	4,364	...	...	...	...	...	...	...	...	...	13,047	...	79,968
...	...	...	...	...	...	...	...	...	...	...	I-B-2b	...	I-B-2b
464	170	19	11	8	10	4	3	3	10	23	9	8	6
2,713,780	1,312,157	104,320	11,362	92,958	46,933	1,468	31,245	14,220	85,842	725,041	39,609	639,156	46,276
453	159	15	7	8	10	4	3	3	10	23	9	8	6
2,476,640	1,305,939	101,077	8,119	92,958	46,933	1,468	31,245	14,220	85,842	725,041	39,609	639,156	46,276
16	13	5	3	...	...	...	...	...	...	...	...	...	...
237,140	6,218	3,243	3,243	...	...	...	...	...	...	...	...	...	...
11	7	...	...	...	1	...	1	...	1	1	...	...	1
207,046	21,072	...	...	...	3,780	...	3,780	...	1,470	9,747	...	...	9,747
468	173	19	11	8	11	4	4	3	10	25	9	8	6
2,742,427	1,316,521	104,320	11,362	92,958	46,933	1,468	31,245	14,220	85,842	725,041	52,656	639,156	126,244
362	112	15	8	7	8	3	3	2	4	22	8	6	8
530,166	329,590	3,836	278	3,558	15,390	128	13,415	1,847	3,642	207,727	20,399	154,239	33,129
2	1	...	...	1	...	...	...	...	...	...	...	2	...
116,565	15,364	15,364	...	15,364	...	...	...	...	...	...	...	93,015	...
...	...	...	...	Washington I-B-1b	...	...	...	...	...	...	...	(3)	...
467	173	19	11	8	11	4	4	3	10	25	9	8	6
2,095,696	971,567	85,120	11,084	74,036	31,543	1,340	17,830	12,373	82,200	517,314	32,297	391,902	93,115
467	173	19	11	8	11	4	4	3	10	25	9	8	6
2,073,474	952,128	75,218	3,732	71,486	29,280	1,340	17,397	10,583	81,414	513,567	32,170	389,670	91,727
30	17	4	3	1	2	...	...	2	3	3	1	1	1
19,070	16,287	8,573	6,023	2,550	1,590	...	...	1,590	756	2,799	52	1,617	1,130
10	10	2	2	...	2	...	1	2	3	3	1	1	1
3,152	3,152	1,329	1,329	...	673	...	473	200	30	948	75	615	258
8	5	...	...	...	1	...	1	...	1	1	...	...	1
207,046	21,072	...	...	...	3,780	...	3,780	...	1,470	9,747	...	...	9,747
3.7	4.0	5.7	1.4	6.9	2.5	1.1	2.1	4.3	3.2	3.7	3.0	3.7	3.7
201	55	13	9	4	7	3	2	2	4	18	9	6	3
2,921,885	2,076,992	168,521	134,321	34,200	73,085	4,235	23,000	45,850	151,117	1,533,448	637,653	872,637	23,158

IRRIGATION OF AGRICULTURAL LANDS

State Table 1.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS.

Item (For definitions and explanations, see text)		Columbia River—Continued											
		Columbia River below Snake River (I-B)—Continued					Snake River below Weiser, Idaho (I-E)						
		John Day River			Umatilla River	Walla Walla River	Total	Snake River direct	Grande Ronde River				
		Total	Below Dayville (6a)	Above Dayville (6b)					(7)	(8)	Total	Grande Ronde River direct (2a)	Walla River (2b)
1	Total acres irrigated in Census year.....1959...	49,000	19,000	30,000	33,000	23,000	190,000	3,000	61,000	21,000	40,000		
2	1949...	43,873	17,116	26,757	29,738	16,777	210,102	3,629	60,506	16,016	44,490		
3	Irrigation organizations.....organizations 1959...	49	5	44	18	46	269	8	91	33	58		
4	1949...	54	11	43	18	51	304	8	106	43	63		
5	Service area, 1959: Farm area reported served by organizations.....acres 1959...	11,249	399	10,890	26,312	12,073	186,850	726	62,967	19,912	43,055		
6	Farm area reported irrigated by organizations.....acres 1959...	11,225	348	10,877	24,900	11,540	167,170	651	54,658	13,803	40,855		
7	Water users served, total.....water users 1959...	335	16	319	1,222	724	2,253	18	921	332	589		
8	Farm irrigation water users.....water users 1959...	273	16	257	880	653	2,054	18	865	320	545		
9	Residential water users.....water users 1959...	62	...	62	342	70	199	...	56	12	44		
10	Other water users.....water users 1959...	...	...	...	...	1	...	...	...	...	...
11	LAND IRRIGATED BY SOURCE OF WATER, 1959 Ground water sources.....acres...	1,000	1,000	...	5,000	13,000	5,000	...	2,000	1,000	1,000		
12	Surface water sources.....acres...	48,000	18,000	30,000	28,000	10,000	185,000	3,000	59,000	20,000	39,000		
13	WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959 Total entering conveyance systems in basin.....organizations...	49	5	44	16	46	267	8	91	33	58		
14	1949...	59,050	1,832	57,218	224,429	70,906	617,637	25,170	233,209	46,348	186,861		
15	From another drainage basin.....organizations...	...	...	...	...	1	1	1	1	...	1
16	1949...	...	...	...	...	Washington I-A-1b	4,364 1,400	1,400	18,738	...	18,738
17	From drainage basin number.....D. B. No. ....	...	...	...	...	...	...	I-F-1	...	...	I-E-1
18	From natural sources within basin.....organizations...	49	5	44	15	45	266	8	89	33	56		
19	1949...	59,050	1,832	57,218	224,429	66,542	616,237	23,770	214,471	46,348	168,123		
20	Surface water.....organizations...	49	5	44	15	38	266	8	89	33	56		
21	1949...	58,852	1,832	57,020	224,429	63,765	616,136	23,770	214,396	46,348	168,048		
22	Ground water.....organizations...	1	...	1	...	7	2	...	1	...	1		
23	1949...	198	...	198	...	2,777	101	...	75	...	75		
24	From other organizations in the basin.....organizations receiving...	...	...	...	3	1	2	...	2	...	2
25	1949...	...	...	...	5,799	276	18,230	...	18,230	...	18,230
26	Total leaving conveyance systems.....organizations...	49	5	44	16	46	267	8	91	33	58		
27	1949...	59,050	1,832	57,218	224,429	70,906	617,637	25,170	233,209	46,348	186,861		
28	Conveyance loss in basin.....organizations...	46	5	41	6	14	224	8	81	32	49		
29	1949...	5,955	139	5,816	89,139	3,901	71,729	2,630	28,543	7,132	21,411		
30	Conveyed to another drainage basin.....organizations...	...	...	...	...	...	...	1	...	...	...
31	1949...	...	...	...	...	...	...	18,738	...	...	...
32	To drainage basin number.....D. B. No. ....	...	...	...	...	...	...	I-E-2b	...	...	...
33	Delivered for use in the basin.....organizations...	49	5	44	16	46	266	7	90	33	57		
34	1949...	53,095	1,693	51,402	135,290	67,005	545,908	3,802	204,666	39,216	165,450		
35	To farm irrigation water users.....organizations...	49	5	44	16	46	266	7	90	33	57		
36	1949...	52,907	1,693	51,214	133,190	66,552	544,274	3,802	203,744	39,191	164,553		
37	To residential water users.....organizations...	1	...	1	2	9	...	...	6	2	4
38	1949...	188	...	188	2,100	281	1,634	...	922	25	897		
39	For other use.....organizations...	...	...	...	...	1	...	...	...	...	...
40	1949...	...	...	...	...	172	...	...	...	...	...
41	Delivered to other irrigation organizations.....organizations delivering...	...	...	...	1	1	2	...	2	...	2
42	1949...	...	...	...	5,799	276	18,230	...	18,230	...	18,230
43	Average delivery of irrigation water per acre irrigated as reported by organizations.....acre-foot...	4.7	4.9	4.7	5.3	5.8	3.3	5.8	3.7	2.8	4.0		
44	NEW CAPITAL INVESTMENT, 1950-1959 Expenditures for additional new works and equipment for irrigation and drainage, Jan. 1, 1950-Dec. 31, 1959.....organizations...	8	...	8	7	...	137	4	42	14	28		
45	1949...	18,231	...	18,231	132,990	...	390,197	3,700	90,597	38,443	52,154		

¹11,957 acre-feet from D. B. No. Idaho I-F-6, 12,326 acre-feet from D. B. No. Idaho I-F-1, 281,845 acre-feet from D. B. No. I-F-5a. ²22,055 acre-feet from D. B. No. I-A-4e, 30,402 acre-feet from D. B. No. II-A-7. ³1,400 acre-feet to D. B. No. I-E-1, 47,468 acre-feet to D. B. No. I-F-4b, 101,201 acre-feet to D. B. No. Idaho I-F-1.

BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Continued

Columbia River—Continued													South Pacific Coast, total	Klamath River (11-A)		
Snake River below Weiser, Idaho (I-E)—Continued						Snake River Weiser, Idaho to King Hill, Idaho (I-F)								Total	Klamath River direct and Lower Klamath Lake	
Pine Creek	Powder River			Burnt River	Total	Snake River direct	Malheur River				Owyhee River					
	Total	Below Thief Valley Reservoir (5a)	Above Thief Valley Reservoir (5b)				Total	Malheur River direct below Warm Springs (4a)	Malheur River direct above Warm Springs (4b)	Willow Creek (4c)						
(4)				(6)		(1)				(4c)	(5)			(1, 2)		
12,000	93,000	20,000	73,000	21,000	214,000	104,000	89,000	59,000	5,000	25,000	21,000	261,000	231,000	47,000	1	
14,687	103,832	24,190	79,642	27,448	205,738	93,567	84,959	50,734	11,453	22,772	27,212	244,980	219,595	43,851	2	
42	105	21	84	24	28	10	15	11	3	3	5	44	38	10	3	
50	114	21	93	27	30	10	14	10	3	3	6	43	33	9	4	
17,785	91,189	23,079	68,110	14,183	159,567	80,861	69,169	44,498	2,411	22,260	9,537	198,111	181,783	39,607	5	
16,972	80,987	22,329	58,658	13,902	155,102	77,706	68,359	43,688	2,411	22,260	9,037	185,823	170,823	37,395	6	
429	787	300	487	98	2,838	1,671	1,110	716	19	375	57	6,543	6,385	1,130	7	
305	768	281	487	98	2,746	1,588	1,105	716	19	370	53	1,707	1,549	227	8	
124	19	19	...	...	92	83	5	...	...	5	4	4,835	4,835	902	9
...	...	...	...	...	...	...	...	...	...	...	...	1	1	1	10
...	2,000	...	2,000	1,000	54,000	40,000	13,000	10,000	...	3,000	1,000	28,000	26,000	6,000	11	
12,000	91,000	20,000	71,000	20,000	160,000	64,000	76,000	49,000	5,000	22,000	20,000	233,000	205,000	41,000	12	
42	104	20	84	23	28	10	15	11	3	3	5	43	37	9	13	
60,654	255,577	121,398	134,179	61,765	809,669	561,220	269,752	247,701	15,243	77,304	308,010	1,121,549	1,072,652	179,505	14	
...	...	...	...	...	...	2	3	1	...	2	...	1	1	2	15
...	...	...	...	...	24,283	306,128	47,468	47,468	...	70,496	...	22,055	22,055	52,457	16
...	...	...	...	...	...	(1)	...	I-F-1	...	I-F-1	...	...	...	(2)	17
42	104	20	84	23	28	10	14	10	3	3	5	43	37	8	18	
60,654	255,577	121,398	134,179	61,765	785,386	255,092	222,284	200,233	15,243	6,808	308,010	1,099,494	1,050,597	127,048	19	
42	104	20	84	23	28	10	14	10	3	3	5	43	37	8	20	
60,654	255,551	121,398	134,153	61,765	554,565	24,271	222,284	200,233	15,243	6,808	308,010	1,081,075	1,032,178	127,048	21	
...	1	...	1	...	1	...	...	...	...	...	...	1	1	...	22
...	26	...	26	...	230,821	230,821	...	...	...	...	...	18,419	18,419	...	23
...	...	...	...	...	2	2	...	...	...	...	...	7	7	2	24
...	...	...	...	...	167,744	167,744	...	...	...	...	...	61,814	61,814	5,691	25
42	104	20	84	23	28	10	15	11	3	3	5	43	37	9	26	
60,654	255,577	121,398	134,179	61,765	809,669	561,220	269,752	247,701	15,243	77,304	308,010	1,121,549	1,072,652	179,505	27	
31	86	16	70	19	26	9	14	10	3	3	4	34	28	7	28	
4,395	30,181	14,873	15,308	5,980	128,847	63,312	55,526	38,614	2,784	14,128	10,009	139,184	121,214	28,482	29	
...	...	...	...	...	2	3	...	2	...	...	1	4	4	1	30
...	...	...	...	...	102,601	150,069	...	70,496	...	...	281,845	423,389	423,389	22,055	31
...	...	...	...	...	...	(3)	...	I-F-4c	...	...	...	...	...	I-A-4d	32
42	104	20	84	23	28	10	15	11	3	3	4	42	36	9	33	
56,299	225,596	106,525	118,871	55,785	578,221	347,839	214,226	138,591	12,459	63,176	16,156	558,976	528,049	128,968	34	
42	104	20	84	23	28	10	15	11	3	3	4	42	36	9	35	
55,647	225,296	106,425	118,871	55,785	577,072	347,080	213,886	138,591	12,459	62,836	16,106	523,990	493,063	97,982	36	
2	1	1	...	...	4	2	1	...	...	1	1	3	3	2	37
612	100	100	...	...	1,149	799	340	...	...	340	50	6,250	6,250	2,250	38
...	...	...	...	...	...	...	...	...	...	...	...	1	1	1	39
...	...	...	...	...	...	...	...	...	...	...	...	28,736	28,736	28,736	40
...	...	...	...	...	1	1	...	...	...	...	...	2	2	2	41
...	...	...	...	...	167,744	167,744	...	...	...	...	...	61,814	61,814	5,691	42
3.3	3.0	4.8	2.0	4.0	3.7	4.5	3.1	3.2	5.2	2.8	1.8	2.8	2.9	2.8	43	
25	49	12	37	17	9	3	4	3	...	3	3	21	21	6	44	
47,085	201,315	103,934	97,381	47,500	454,696	341,207	82,739	64,526	...	18,213	30,750	5,080,671	5,080,671	695,462	45	

IRRIGATION OF AGRICULTURAL LANDS

State Table 1.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY DRAINAGE BASINS:
CENSUSES OF 1959 AND 1950—Continued

	Item (For definitions and explanations, see text)	Klamath River (II-A)— Continued		Sacramento River (II-B). Coosue Lake	Great Basin (Northwest Great Basin) (III-A)					
		Lost River	Upper Klamath Lake and Williamson Reservoir		Total	Lake Abert area, Silver and Summer Lakes area, Cowhead and Warner Lakes area	Central Desert area	Malheur Lake area	Trout and Whitehorse Creeks	Quinn River
1	Total acres irrigated in Census year.....1959...	95,000	89,000	30,000	156,000	70,000	1,000	67,000	13,000	5,000
2	1949.....	77,241	98,503	25,385	235,749	99,100	2,543	110,236	16,890	6,980
3	Irrigation organizations.....organizations 1959...	11	21	6	26	9	...	17	...	...
4	1949.....	7	20	10	32	10	...	22	...	...
5	Service area, 1959: Farm area reported served by organizations.....acres 1959...	91,803	50,373	16,328	49,959	29,528	...	20,431	...	...
6	Farm area reported irrigated by organizations.....acres 1959...	89,892	43,536	15,000	41,083	25,046	...	16,037	...	...
7	Water users served, total.....water users 1959...	5,117	138	158	135	69	...	66	...	...
8	Farm irrigation water users.....water users 1959...	1,184	138	158	130	64	...	66	...	...
9	Residential water users.....water users 1959...	3,933	...	...	5	5	...	...	...	...
10	Other water users.....water users 1959...	...	...	...	...	...	...	...	...	...
	LAND IRRIGATED BY SOURCE OF WATER, 1959									
11	Ground water sources.....acres...	14,000	6,000	2,000	15,000	9,000	...	4,000	2,000	...
12	Surface water sources.....acres...	81,000	83,000	28,000	141,000	61,000	1,000	63,000	11,000	5,000
	WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959									
13	Total entering conveyance systems in basin.....organizations...	11	21	6	26	9	...	17	...	...
14	1959.....acre-feet...	750,422	427,501	48,897	97,531	73,470	...	24,061	...	...
15	From another drainage basin.....organizations...	1	...	...	...	...	...	...	...	...
16	1959.....acre-feet...	254,374	...	...	...	...	...	...	...	...
17	From drainage basin number.....D. B. No.	II-A-7	...	...	...	...	...	...	...	...
18	From natural sources within basin.....organizations...	11	21	6	26	9	...	17	...	...
19	1959.....acre-feet...	496,048	427,501	48,897	97,531	73,470	...	24,061	...	...
20	Surface water.....organizations...	11	21	6	26	9	...	17	...	...
21	1959.....acre-feet...	477,629	427,501	48,897	97,531	73,470	...	24,061	...	...
22	Ground water.....organizations...	1	...	...	...	...	...	...	...	...
23	1959.....acre-feet...	18,419	...	...	...	...	...	...	...	...
24	From other organizations in the basin.....organizations receiving...	5	...	...	...	...	...	...	...	...
25	1959.....acre-feet...	56,123	...	...	...	...	...	...	...	...
26	Total leaving conveyance systems.....organizations...	11	21	6	26	9	...	17	...	...
27	1959.....acre-feet...	750,422	427,501	48,897	97,531	73,470	...	24,061	...	...
28	Conveyance loss in basin.....organizations...	8	14	6	25	8	...	17	...	...
29	1959.....acre-feet...	87,075	5,657	17,970	9,054	5,212	...	3,842	...	...
30	Conveyed to another drainage basin.....organizations...	1	4	...	...	...	...	...	...	...
31	1959.....acre-feet...	382,419	303,691	...	...	...	...	...	...	...
32	To drainage basin number.....D. B. No.	California II-A-6	(1)	...	...	...	...	...	...	...
33	Delivered for use in the basin.....organizations...	11	19	6	26	9	...	17	...	...
34	1959.....acre-feet...	280,928	118,153	30,927	88,477	68,258	...	20,219	...	...
35	To farm irrigation water users.....organizations...	11	19	6	26	9	...	17	...	...
36	1959.....acre-feet...	276,928	118,153	30,927	88,427	68,208	...	20,219	...	...
37	To residential water users.....organizations...	2	...	...	1	1	...	...	...	...
38	1959.....acre-feet...	4,000	...	...	50	50	...	...	...	...
39	For other use.....organizations...	...	...	...	...	...	...	...	...	...
40	1959.....acre-feet...	...	...	...	...	...	...	...	...	...
41	Delivered to other irrigation organizations.....organizations delivering...	1	...	...	...	...	...	...	...	...
42	1959.....acre-feet...	56,123	...	...	...	...	...	...	...	...
43	Average delivery of irrigation water per acre irrigated as reported by organizations.....acre-feet...	3.1	2.7	2.1	2.2	2.7	...	1.3	...	...
	NEW CAPITAL INVESTMENT, 1950-1959									
44	Expenditures for additional new works and equipment for irrigation and drainage, Jan. 1, 1950-Dec. 31, 1959.....organizations...	7	10	...	3	2	...	1	...	...
45	1959.....dollars...	3,818,512	566,697	...	18,500	18,000	...	500	...	...

¹30,402 acre-feet to D. B. No. II-A-5, 14,301 acre-feet to D. B. No. I-A-48, 4,614 acre-feet to D. B. No. California II-A-6, 254,374 acre-feet to D. B. No. II-A-6.

State Table 2.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950

Item (For definitions and explanations, see text)	Oregon, total	North Pacific Coast excluding Columbia River		Columbia River below Snake River		Snake River below Weiner, Idaho to King Hill, Idaho		Klamath River	
		(I-A)		(I-B)		(I-E and I-F)		(II-A)	
1 Irrigation organizations, total									
2 number.....organizations 1959...	650	111	175	296	38				
1949...	755	131	216	334	33				
3 Area irrigated as reported by									
4 organizations.....acres 1959...	846,182	59,524	237,480	322,272	170,823				
1949...	739,052	53,630	186,111	305,070	123,467				
5 Farm water users served directly.....water users 1959...	17,712	4,634	6,441	4,800	1,549				
6 Total water conveyed.....acre-feet 1959...	4,461,553	289,597	1,337,593	1,611,880	1,134,466				
TYPE OF ORGANIZATION									
7 Mutual:									
8 Unincorporated.....organizations 1959...	473	86	113	232	13				
1949...	580	105	150	268	16				
9 Farm area irrigated directly.....acres 1959...	193,100	15,092	18,350	107,105	10,570				
10 Farm water users served									
11 directly.....water users 1959...	2,513	420	609	1,272	64				
1949...	683,382	64,873	94,855	394,148	36,625				
12 Total water conveyed.....acre-feet 1959...									
13 Incorporated.....organizations 1959...	115	17	37	54	5				
1949...	117	16	42	54	4				
14 Farm area irrigated directly.....acres 1959...	146,039	7,287	37,402	80,417	8,333				
15 Farm water users served									
16 directly.....water users 1959...	3,084	256	1,467	1,111	113				
1949...	613,757	26,475	177,450	332,635	28,650				
17 Total water conveyed.....acre-feet 1959...									
18 District.....organizations 1959...	55	7	21	10	18				
1949...	47	7	20	10	10				
20 Farm area irrigated directly.....acres 1959...	(D)	(D)	(D)	134,750	137,815				
21 Farm water users served									
22 directly.....water users 1959...	(D)	(D)	(D)	2,417	1,322				
1949...	(D)	(D)	(D)	885,097	1,017,190				
23 Total water conveyed.....acre-feet 1959...									
24 U. S. Bureau of Reclamation; projects and stor-									
25 age systems operated by bureau...organizations 1959...	3	...	2	...	1				
1949...	5	...	2	2	1				
26 Farm area irrigated directly.....acres 1959...	12,645	...	...	...	12,645				
27 Farm water users served									
28 directly.....water users 1959...	30	...	...	...	30				
1949...	44,701	...	...	...	44,701				
29 Total water conveyed.....acre-feet 1959...									
30 U. S. Bureau of Reclamation; operated									
31 by water users.....organizations 1959...	32	4	11	7	13				
1949...	11	NA	NA	NA	NA				
32 Farm area irrigated directly.....acres 1959...	391,972	29,104	146,171	101,699	114,998				
33 Farm water users served									
34 directly.....water users 1959...	9,462	3,477	2,761	1,928	1,336				
1949...	2,754,120	158,508	913,568	772,993	967,462				
35 Total water conveyed.....acre-feet 1959...									
36 U. S. Bureau of Indian Affairs...organizations 1959...	2	...	...	...	1				
1949...	3	...	1	...	2				
37 Farm area irrigated directly.....acres 1959...	1,790	...	330	...	1,460				
38 Farm water users served									
39 directly.....water users 1959...	37	...	17	...	20				
1949...	11,275	...	3,975	...	7,300				
40 Total water conveyed.....acre-feet 1959...									
41 Commercial.....organizations 1959...	...	...	...	...	...
1949...	...	...	...	...	...
42 Farm area irrigated directly.....acres 1959...	...	...	...	...	...
43 Farm water users served									
44 directly.....water users 1959...	...	...	...	...	...
1949...	...	...	...	...	...
45 Total water conveyed.....acre-feet 1959...									
46 State.....organizations 1959...	...	...	...	...	...
1949...	...	...	...	...	...
47 Farm area irrigated directly.....acres 1959...	...	...	...	...	...
48 Farm water users served									
49 directly.....water users 1959...	...	...	...	...	...
1949...	...	...	...	...	...
50 Total water conveyed.....acre-feet 1959...									
51 City.....organizations 1959...	2	1	1	...	...		
1949...	3	2	1	...	...		
52 Farm area irrigated directly.....acres 1959...	(D)	(D)	(D)	...	...		
53 Farm water users served									
54 directly.....water users 1959...	(D)	(D)	(D)	...	...		
1949...	(D)	(D)	(D)	...	...		
55 Total water conveyed.....acre-feet 1959...									

D Data not shown to avoid disclosure of information for individual organizations.
NA Not available.

State Table 2.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Continued

Item (For definitions and explanations, see text)	Oregon, total	North Pacific Coast excluding Columbia River	Columbia River below Snake River	Snake River below Weiser, Idaho and Snake River, Weiser, Idaho to King Hill, Idaho	Klamath River
		(I-A)	(I-B)	(I-E and I-F)	(II-A)
TYPE OF SERVICE, 1959					
1 All water directly from surface and ground water sources.....organizations...	627	110	166	290	31
2 Total water conveyed.....acre-feet...	4,139,701	274,097	1,310,673	1,391,207	1,075,707
3 Water delivered.....acre-feet...	2,999,487	202,192	965,130	1,198,592	914,169
4 To farm and residential users only.....organizations...	614	109	161	285	28
5 To farm and residential users and other irrigation organizations.....organizations...	1,915,020	175,685	674,453	719,716	225,762
6 Water to farm and residential users.....acre-feet...	12	1	5	5	3
7 Water to other irrigation organizations.....acre-feet...	805,620	16,520	269,605	292,902	226,593
8 To other irrigation organizations only.....organizations...	261,522	9,987	21,072	168,649	61,814
9 only.....acre-feet...	1	...	...	1	...
10 Part of water from other organizations.....organizations...	17,325	...	...	17,325	...
11 Total water conveyed.....acre-feet...	15	1	4	3	7
12 From surface and ground water sources.....acre-feet...	286,864	15,500	9,297	203,348	58,759
13 From other irrigation organizations.....acre-feet...	43,005	5,513	5,848	34,699	1-3,055
14 Water delivered.....acre-feet...	243,859	9,987	3,409	168,649	61,814
15 To farm and residential users only.....organizations...	162,792	13,000	8,648	94,186	46,958
16 To farm and residential users and other irrigation organizations.....organizations...	15	1	4	3	7
17 Water to farm and residential users.....acre-feet...	162,792	13,000	8,648	94,186	46,958
18 Water to other irrigation organizations.....acre-feet...	...	...	...	...	...
19 To other irrigation organizations only.....organizations...	...	...	...	...	...
20 only.....acre-feet...	...	...	...	...	...
21 All of water from other organizations.....organizations...	4	...	3	1	...
22 Total water conveyed.....acre-feet...	34,988	...	17,663	17,325	...
23 Water delivered.....acre-feet...	33,034	...	15,709	17,325	...
24 To farm and residential users only.....organizations...	4	...	3	1	...
25 To farm and residential users and other irrigation organizations.....organizations...	33,034	...	15,709	17,325	...
26 Water to farm and residential users.....acre-feet...	...	...	...	...	...
27 Water to other irrigation organizations.....acre-feet...	...	...	...	...	...
28 To other irrigation organizations only.....organizations...	...	...	...	...	...
29 only.....acre-feet...	...	...	...	...	...
30 No water conveyed.....organizations...	4	...	2	2	...
WATER FROM OTHER SOURCES					
31 Organizations reporting no water from other sources used on land served by the organization.....organizations...	577	107	150	255	37
32 acres served...	809,820	56,579	146,500	293,198	268,575
33 Water delivered to farms.....acre-feet...	760,034	53,426	140,485	273,609	256,342
34 acres irrigated...	2,568,770	174,269	595,128	1,042,269	678,440
35 Water delivered to farms.....acre-feet per acre...	3.3	3.2	4.2	3.8	2.6
36 Organizations reporting water from other sources used on land served by the organization.....organizations...	68	4	23	38	1
37 acres served...	331,481	6,175	102,281	217,650	2,000
38 acres irrigated...	323,564	6,100	99,495	213,094	2,000
39 Water delivered to farms.....acre-feet...	1,252,745	24,893	367,000	831,522	2,530
40 acres irrigated...	3.9	4.1	3.6	4.0	1.2

¹Water was transferred to the basin and released to natural stream channels in excess of the quantity of surface water withdrawn by irrigation organizations. The net effect was to increase the available surface water supply in the basin or State.

State Table 2.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Continued

Item (For definitions and explanations, see text)	Oregon, total	North Pacific Coast excluding Columbia River	Columbia River below Snake River	Snake River below Weiser, Idaho to King Hill, Idaho	Klamath River
		(I-A)	(I-B)	(I-E and I-F)	(II-A)
WATER DELIVERED PER ACRE					
Organizations reporting no water from other sources used on same land:					
0.1 to 0.9 acre-feet per acre.....organizations...	28	8	2	13	...
acres irrigated...	20,602	780	460	12,856	...
1.0 to 1.9 acre-feet per acre.....organizations...	90	19	13	39	3
acres irrigated...	80,036	2,391	18,090	30,658	18,461
2.0 to 2.9 acre-feet per acre.....organizations...	127	24	20	62	14
acres irrigated...	221,968	27,362	9,935	28,656	149,003
3.0 to 3.9 acre-feet per acre.....organizations...	132	29	27	53	18
acres irrigated...	162,184	9,505	19,705	34,836	85,938
4.0 to 4.9 acre-feet per acre.....organizations...	84	13	24	46	1
acres irrigated...	167,226	2,838	61,833	101,075	1,480
5.0 to 5.9 acre-feet per acre.....organizations...	37	5	13	18	1
acres irrigated...	63,509	1,294	9,301	51,454	1,460
6.0 to 6.9 acre-feet per acre.....organizations...	25	5	10	10	...
acres irrigated...	24,932	8,222	8,707	8,003	...
7.0 to 7.9 acre-feet per acre.....organizations...	16	2	7	7	...
acres irrigated...	5,774	708	1,764	3,302	...
8.0 to 9.9 acre-feet per acre.....organizations...	28	2	21	5	...
acres irrigated...	11,972	324	9,454	2,194	...
10.0 or more acre-feet per acre.....organizations...	10	...	8	2	...
acres irrigated...	1,811	...	1,236	575	...
SIZE OF ORGANIZATION					
Size of organization (number of farm irrigation water users served directly):					
None.....organizations...	5	...	2	3	...
1 to 3.....organizations...	220	44	71	90	9
water users.....	541	111	176	216	23
4 to 9.....organizations...	250	40	45	135	9
water users.....	1,386	230	257	755	40
10 to 29.....organizations...	104	19	25	50	6
water users.....	1,741	335	449	827	84
30 to 99.....organizations...	44	2	20	12	10
water users.....	2,411	87	1,214	517	593
100 to 299.....organizations...	11	3	7	1	...
water users.....	2,232	564	1,295	250	...
300 to 999.....organizations...	13	2	5	3	...
water users.....	7,304	975	3,078	1,508	2,718
1,000 or more.....organizations...	3	1	...	...	...
water users.....	7,238	2,332	...	5,038	...
Size of organization (acre-feet of water delivered directly to farms):					
None.....organizations...	5	...	2	3	...
1 to 299 acre-feet.....organizations...	152	43	47	59	1
acre-feet.....	22,194	4,841	7,679	9,234	240
300 to 999 acre-feet.....organizations...	198	37	56	90	4
acre-feet.....	120,113	21,327	33,770	55,939	2,034
1,000 to 2,999 acre-feet.....organizations...	156	19	36	81	10
acre-feet.....	282,017	29,777	66,691	149,233	18,265
3,000 to 9,999 acre-feet.....organizations...	85	7	18	44	10
acre-feet.....	424,468	27,676	101,482	207,247	59,095
10,000 to 29,999 acre-feet.....organizations...	34	4	9	12	8
acre-feet.....	588,769	68,890	179,614	177,052	132,011
30,000 to 99,999 acre-feet.....organizations...	13	1	5	23	...
acre-feet.....	671,564	46,651	218,955	232,503	173,655
100,000 or more acre-feet.....organizations...	7	...	3	2	...
acre-feet.....	1,712,390	...	353,937	1,062,783	295,670
Size of organization (acre-feet of water conveyed):					
None.....organizations...	4	...	2	2	...
1 to 299 acre-feet.....organizations...	129	38	41	47	1
acre-feet.....	18,619	4,103	6,731	7,297	266
300 to 999 acre-feet.....organizations...	193	35	57	88	4
acre-feet.....	114,946	19,776	33,786	52,773	2,362
1,000 to 2,999 acre-feet.....organizations...	160	26	33	80	10
acre-feet.....	281,400	44,411	56,730	139,477	21,206
3,000 to 9,999 acre-feet.....organizations...	102	7	23	56	9
acre-feet.....	500,118	32,799	118,810	254,412	58,632
10,000 to 29,999 acre-feet.....organizations...	36	2	9	16	8
acre-feet.....	627,723	41,055	173,156	252,343	118,169
30,000 to 99,999 acre-feet.....organizations...	17	3	8	3	3
acre-feet.....	917,736	125,398	425,507	191,434	166,698
100,000 or more acre-feet.....organizations...	9	...	2	4	3
acre-feet.....	3,067,787	...	518,509	1,842,108	707,170

IRRIGATION OF AGRICULTURAL LANDS

State Table 3.—LAND IRRIGATED BY SOURCE OF WATER, BY DRAINAGE BASINS: CENSUS OF 1959

Item (For definitions and explanations, see text)	Oregon, total	North Pacific Coast, excluding Columbia River	Columbia River below Snake River, (Oregon, Washington)	Snake River below Weiser, Idaho, and Snake River, Weiser, Idaho, to King Hill, Idaho	Klamath River
		(I-A)	(I-B)	(I-E and I-F)	
1 Total acres irrigated.....farms reporting...	17,724	3,416	9,648	3,300	908
2 acres...	1,384,284	100,062	463,286	403,333	231,488
3 Acres irrigated by sprinklers....farms reporting...	8,954	1,628	6,762	265	227
4 acres...	283,506	37,217	210,852	14,379	15,860
5 Sprinklers only.....farms reporting...	7,747	1,350	6,178	134	58
6 acres...	234,031	30,942	187,859	7,863	4,612
LAND IRRIGATED, BY SOURCE OF WATER TO INDIVIDUAL FARMS, 1959					
7 Ground water sources on farm.....farms reporting...	4,097	351	3,248	287	109
8 acres...	151,486	4,559	92,214	13,692	23,995
9 Ground water sources on farm only.farms reporting...	3,208	250	2,698	144	50
10 acres...	99,340	3,406	66,253	6,305	12,905
11 Surface sources on farm.....farms reporting...	6,551	1,639	3,629	864	132
12 acres...	561,303	52,394	180,437	123,725	67,920
13 Surface sources on farm only.....farms reporting...	5,596	1,496	3,135	637	90
14 acres...	465,244	48,583	149,172	99,843	56,389
15 Irrigation organization sources.....farms reporting...	8,445	1,617	3,477	2,473	758
16 acres...	673,495	43,109	190,635	265,916	139,573
17 Irrigation organization sources only.....farms reporting...	7,591	1,483	3,126	2,204	685
18 acres...	565,506	37,821	168,176	230,918	115,958
19 Both farm ground water sources and surface sources.....farms reporting...	472	52	338	44	10
20 acres...	64,334	1,672	35,025	10,141	3,854
21 Both irrigation organization and farm ground water or farm surface sources.....farms reporting...	857	135	351	271	73
22 acres...	189,860	8,580	44,660	56,126	42,382

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950

Item (For definitions and explanations, see text)	Oregon, total						
	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users	
Irrigation organizations.....organizations 1959...	690	473	115	55	3	32	4
1949...	753	580	117	47	5	11	6
Service area, 1959:							
Area served, as reported							
by organizations.....acres...	903,222	218,746	156,348	(D)	13,310	400,656	(D)
Area irrigated, as reported							
by organizations.....acres...	846,182	193,100	146,039	(D)	12,645	391,972	(D)
Water users served, 1959, total.....water users...	33,437	2,621	4,217	(D)	32	17,374	(D)
Farm irrigation water users.....water users...	17,712	2,513	3,084	(D)	30	9,462	(D)
Residential water users.....water users...	14,690	103	1,068	(D)	2	7,900	(D)
Other water users.....water users...	1,035	5	65	(D)	...	12	(D)
TYPE OF SERVICE, 1959							
All water directly from surface and ground							
water sources.....organizations...	627	472	107	43	1	21	4
Total water conveyed.....acre-feet...	4,139,701	682,692	500,463	(D)	44,701	2,536,072	(D)
Water delivered.....acre-feet...	2,999,487	608,706	417,553	(D)	44,701	1,623,853	(D)
To farm and residential users							
only.....organizations...	614	471	105	33	1	14	4
1,915,020	591,381	412,642	(D)	44,701	622,260	(D)	
To farm and residential users and other							
irrigation organizations.....organizations...	12	...	2	10	...	7	...
Water to farm and residential							
users.....acre-feet...	805,620	...	4,010	(D)	...	746,502	...
Water to other irrigation							
organizations.....acre-feet...	261,522	...	1,181	(D)	...	255,091	...
To other irrigation organizations							
only.....organizations...	1	1	...	...	...	...	...
acre-feet...	17,325	17,325	...	...	...	...	...
Part of water from other							
organizations.....organizations...	15	1	6	8	...	8	...
Total water conveyed.....acre-feet...	286,864	690	91,833	(D)	...	208,301	...
From surface and ground water							
sources.....acre-feet...	43,005	414	38,477	(D)	...	1,324	...
From other irrigation organizations.....acre-feet...	243,859	276	53,356	(D)	...	206,977	...
Water delivered.....acre-feet...	162,792	518	82,000	(D)	...	90,662	...
To farm and residential users							
only.....organizations...	15	1	6	8	...	8	...
acre-feet...	162,792	518	82,000	(D)	...	90,662	...
To farm and residential users and other							
irrigation organizations.....organizations...	...	...	...	...	...	...	...
Water to farm and residential							
users.....acre-feet...	...	...	...	...	...	...	...
Water to other irrigation							
organizations.....acre-feet...	...	...	...	...	...	...	...
To other irrigation organizations							
only.....organizations...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
All of water from other organizations.....organizations...	4	...	2	2	...	1	...
Total water conveyed.....acre-feet...	34,988	...	21,461	(D)	...	9,747	...
Water delivered.....acre-feet...	33,034	...	21,461	(D)	...	8,773	...
To farm and residential users							
only.....organizations...	4	...	2	2	...	1	...
acre-feet...	33,034	...	21,461	(D)	...	8,773	...
To farm and residential users and other							
irrigation organizations.....organizations...	...	...	...	...	...	...	...
Water to farm and residential							
users.....acre-feet...	...	...	...	...	...	...	...
Water to other irrigation							
organizations.....acre-feet...	...	...	...	...	...	...	...
To other irrigation organizations							
only.....organizations...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
No water conveyed.....organizations...	4	...	...	2	2	2	...
WATER FROM OTHER SOURCES							
Organizations reporting no water from other							
sources used on the land served by the							
organization.....organizations...	377	434	97	42	1	24	3
809,805	195,615	129,779	(D)	20,960	391,750	(D)	
acre irrigated	760,014	174,793	119,231	(D)	19,912	382,351	(D)
water delivered to farms (acre-feet)...	2,568,770	542,713	410,904	(D)	70,000	1,370,053	(D)
acre-feet per acre...	3.3	3.1	3.4	3.4	3.5	3.6	4.5
Organizations reporting water from other							
sources used on land served by the							
organization.....organizations...	68	38	18	11	...	6	1
acre served...	331,481	23,131	27,269	(D)	...	236,117	(D)
acre irrigated...	323,364	18,347	26,908	(D)	...	234,790	(D)
water delivered to farms (acre-feet)...	1,252,745	48,855	103,858	(D)	...	964,387	(D)
acre-feet per acre...	3.9	2.6	3.8	3.9	...	4.1	1.0
NEW CAPITAL INVESTMENT, 1950-1959							
Expenditures for additional new works and							
equipment for irrigation and drainage,							
January 1, 1950-December 31, 1959.....organizations...	277	177	59	38	1	24	2
By U. S. B. R.....dollars...	3,912,131	...	498,300	(D)	1,884,883	2,027,248	...
By water users organizations.....dollars...	5,676,737	364,916	590,261	(D)	...	4,340,545	(D)

See footnote at end of table.

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

Item (For definitions and explanations, see text)	Oregon, total						
	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users	
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
Total entering conveyance systems.....organizations... acre-feet.....	646 4,182,706	473 683,106	115 538,940	53 (D)	1 44,701	30 2,537,396	4 (D)
From another drainage basin.....organizations... acre-feet.....	3 28,647	...	...	3 (D)	...	1 11,957	...
From drainage basin.....D. B. No.....	...	...	...	...	...	...	...
From sources within basin.....organizations... acre-feet.....	642 4,154,059	473 683,106	113 538,940	51 (D)	1 44,701	29 2,525,439	4 (D)
Surface water.....organizations... acre-feet.....	631 3,891,300	465 680,091	110 537,653	51 (D)	1 44,701	29 2,276,199	4 (D)
Ground water.....organizations... acre-feet.....	18 262,759	10 3,015	4 1,287	3 (D)	...	2 249,240	1 (D)
From other organizations in the basin.....organizations receiving... acre-feet.....	19 278,847	1 276	8 74,817	10 (D)	...	8 216,724	...
Total leaving conveyance systems.....organizations... acre-feet.....	646 4,182,706	473 666,057	115 612,576	53 (D)	1 44,701	30 2,499,029	4 (D)
Conveyance loss in basin.....organizations... acre-feet.....	499 730,281	366 73,976	85 91,427	46 (D)	...	27 512,989	2 (D)
Conveyed to another drainage basin.....organizations... acre-feet.....	4 503,598	...	...	4 (D)	...	3 488,234	...
To drainage basin number.....D. B. No.....	...	...	...	...	...	...	...
Delivered for use in the basin.....organizations... acre-feet.....	645 2,948,827	472 592,081	115 521,149	53 (D)	1 44,701	30 1,497,806	4 (D)
To farm irrigation water users.....organizations... acre-feet.....	645 2,885,053	472 591,568	115 514,762	53 (D)	1 44,451	30 1,449,277	4 (D)
To domestic water users.....organizations... acre-feet.....	44 31,413	15 331	15 5,351	15 (D)	1 250	3 18,920	3 (D)
For other use.....organizations... acre-feet.....	14 32,361	2 182	6 1,036	3 (D)	...	2 29,609	2 (D)
Delivered to other irrigation organizations.....organizations delivering... acre-feet.....	11 278,847	1 17,325	2 1,181	8 (D)	...	5 255,091	...
SIZE OF ORGANIZATION, 1959							
Size of organization (number of farm irrigation water users):							
None.....organizations...	6	2	...	(D)	2	2	(D)
1 to 3 water users.....organizations...	220	210	7	(D)	...	...	(D)
4 to 9 water users.....organizations...	250	214	34	(D)	...	1	(D)
10 to 29 water users.....organizations...	103	43	52	(D)	...	1	(D)
30 to 99 water users.....organizations...	44	4	17	(D)	1	11	(D)
100 to 299 water users.....organizations...	11	...	4	(D)	...	6	(D)
300 to 999 water users.....organizations...	13	...	1	(D)	...	9	(D)
1,000 or more water users.....organizations...	3	...	...	(D)	...	2	(D)
Size of organization (acre-feet of water delivered directly to farms):							
None.....organizations...	5	1	...	(D)	2	2	(D)
1 to 299 acre-feet.....organizations...	152	142	9	(D)	...	...	(D)
300 to 999 acre-feet.....organizations...	198	166	29	(D)	...	...	(D)
1,000 to 2,999 acre-feet.....organizations...	156	119	32	(D)	...	1	(D)
3,000 to 9,999 acre-feet.....organizations...	85	40	32	(D)	...	5	(D)
10,000 to 29,999 acre-feet.....organizations...	34	4	12	(D)	...	9	(D)
30,000 to 99,999 acre-feet.....organizations...	13	1	1	(D)	1	9	(D)
100,000 or more acre-feet.....organizations...	7	...	...	(D)	...	6	(D)
Size of organization (acre-feet of water conveyed):							
None.....organizations...	4	...	...	(D)	2	2	(D)
1 to 299 acre-feet.....organizations...	129	123	5	(D)	...	...	(D)
300 to 999 acre-feet.....organizations...	193	165	27	(D)	...	1	(D)
1,000 to 2,999 acre-feet.....organizations...	160	128	28	(D)	...	1	(D)
3,000 to 9,999 acre-feet.....organizations...	102	50	38	(D)	...	2	(D)
10,000 to 29,999 acre-feet.....organizations...	36	7	14	(D)	...	8	(D)
30,000 to 99,999 acre-feet.....organizations...	17	...	3	(D)	1	9	(D)
100,000 or more acre-feet.....organizations...	9	...	...	(D)	...	9	(D)

D Data not shown to avoid disclosure of information for individual organizations.

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

Item (For definitions and explanations, see text)	North Pacific Coast, excluding Columbia River (I-A)						
	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users	
Irrigation organizations.....organizations 1959...	111	86	17	7	...	4	1
Service area, 1959: 1949.....	131	106	16	7	...	NA	2
Area served, as reported							
by organizations.....acres...	62,754	16,441	8,148	(D)	...	30,099	(D)
Area irrigated, as reported							
by organizations.....acres...	59,524	15,092	7,287	(D)	...	29,104	(D)
Water users served, 1959, total.....water users...	9,824	455	389	(D)	...	5,467	(D)
Farm irrigation water users.....water users...	4,634	420	256	(D)	...	3,437	(D)
Residential water users.....water users...	4,793	31	132	(D)	...	2,030	(D)
Other water users.....water users...	457	4	1	...	...	...	(D)
TYPE OF SERVICE, 1959							
All water directly from surface and ground							
water sources.....organizations...	110	86	17	6	...	3	1
Total water conveyed.....acre-feet...	274,097	64,873	26,475	(D)	...	120,953	(D)
Water delivered.....acre-feet...	202,192	54,080	23,484	(D)	...	93,297	(D)
To farm and residential users							
only.....organizations...	109	86	17	5	...	2	1
acre-feet...	175,685	54,080	23,484	(D)	...	66,790	(D)
To farm and residential users and other							
irrigation organizations.....organizations...	...	...	...	1	...	1	...
Water to farm and residential							
users.....acre-feet...	16,520	...	...	(D)	...	16,520	...
Water to other irrigation							
organizations.....acre-feet...	9,987	...	...	(D)	...	9,987	...
To other irrigation organizations							
only.....organizations...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
Part of water from other							
organizations.....organizations...	1	...	...	1	...	1	...
Total water conveyed.....acre-feet...	15,500	...	...	(D)	...	37,555	...
From surface and ground water							
sources.....acre-feet...	5,513	...	...	(D)	...	5,513	...
From other irrigation organizations.....acre-feet...	9,987	...	...	(D)	...	9,987	...
Water delivered.....acre-feet...	13,000	...	...	(D)	...	13,000	...
To farm and residential users							
only.....organizations...	1	...	...	1	...	1	...
acre-feet...	13,000	...	...	(D)	...	13,000	...
To farm and residential users and other							
irrigation organizations.....organizations...	...	...	...	...	...	...	...
Water to farm and residential							
users.....acre-feet...	...	...	...	...	...	...	...
Water to other irrigation							
organizations.....acre-feet...	...	...	...	...	...	...	...
To other irrigation organizations							
only.....organizations...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
All of water from other organizations.....organizations...	...	...	...	...	...	...	...
Total water conveyed.....acre-feet...	...	...	...	...	...	...	...
Water delivered.....acre-feet...	...	...	...	...	...	...	...
To farm and residential users							
only.....organizations...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
To farm and residential users and other							
irrigation organizations.....organizations...	...	...	...	...	...	...	...
Water to farm and residential							
users.....acre-feet...	...	...	...	...	...	...	...
Water to other irrigation							
organizations.....acre-feet...	...	...	...	...	...	...	...
To other irrigation organizations							
only.....organizations...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
No water conveyed.....organizations...	...	...	...	...	...	...	...
WATER FROM OTHER SOURCES							
Organizations reporting no water from other							
sources used on the land served by the							
organization.....organizations...	107	83	17	6	...	4	1
acres served.....	56,979	16,154	8,148	(D)	...	30,099	(D)
acres irrigated.....	53,424	14,880	7,287	(D)	...	29,104	(D)
water delivered to farms (acre-feet)...	174,269	53,161	23,026	(D)	...	91,941	(D)
acre-feet per acre...	3.2	3.5	3.1	3.1	...	3.0	1.5
Organizations reporting water from other							
sources used on land served by the							
organization.....organizations...	4	3	...	1	...	...	...
acres served.....	6,175	287	...	(D)	...	...	...
acres irrigated.....	6,100	212	...	(D)	...	...	...
water delivered to farms (acre-feet)...	24,893	893	...	(D)	...	...	...
acre-feet per acre...	4.1	4.2	...	4.1	...	...	...
NEW CAPITAL INVESTMENT, 1950-1959							
Expenditures for additional new works and							
equipment for irrigation and drainage,							
January 1, 1950-december 31, 1959.....organizations...	52	34	11	6	...	4	1
By U. S. B. R.....dollars...	708,816	...	...	(D)	...	708,816	...
By water users organizations.....dollars...	858,996	94,366	148,976	(D)	...	530,954	(D)

See footnotes at end of table.

IRRIGATION OF AGRICULTURAL LANDS

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

Item (For definitions and explanations, see text)	North Pacific Coast, excluding Columbia River (I-A)						
	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users	
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
Total entering conveyance systems.....organizations... 							

D Data not shown to avoid disclosure of information for individual organizations.
 NA Not available.

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

Item (For definitions and explanations, see text)	Columbia River below Snake River, (Oregon, Washington) (I-B)						
	All types	Actual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users	
Irrigation organizations.....organizations 1959...	175	113	37	21	2	11	2
Service area, 1959:	216	150	42	20	2	NA	2
Area served, as reported							
by organizations.....acres...	245,981	19,343	40,469	(D)	...	148,473	(D)
Area irrigated, as reported							
by organizations.....acres...	237,480	18,350	37,402	(D)	...	146,171	(D)
Water users served, 1959, total.....water users...	11,844	637	2,271	(D)	...	3,758	(D)
Farm irrigation water users.....water users...	6,441	609	1,467	(D)	...	2,761	(D)
Residential water users.....water users...	4,826	27	740	(D)	...	986	(D)
Other water users.....water users...	577	1	64	12	...	11	(D)
TYPE OF SERVICE, 1959							
All water directly from surface and ground							
water sources.....organizations...	166	112	34	18	...	10	2
Total water conveyed.....acre-feet...	1,310,673	94,165	168,197	(D)	...	903,821	(D)
Water delivered.....acre-feet...	965,130	86,476	138,588	(D)	...	635,070	(D)
To farm and residential users							
only.....organizations...	161	112	33	14	...	8	2
acre-feet...	674,453	86,476	136,412	(D)	...	391,259	(D)
To farm and residential users and other							
irrigation organizations.....organizations...	5	...	1	4	...	2	...
Water to farm and residential							
users.....acre-feet...	269,605	...	1,900	(D)	...	228,265	...
Water to other irrigation							
organizations.....acre-feet...	21,072	...	276	(D)	...	15,546	...
To other irrigation organizations							
only.....organizations...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
Part of water from other							
organizations.....organizations...	4	1	2	1	...	...	...
Total water conveyed.....acre-feet...	9,257	690	5,117	(D)	...	...	...
From surface and ground water							
sources.....acre-feet...	5,848	414	3,454	(D)	...	...	...
From other irrigation organizations.....acre-feet...	3,409	276	1,663	(D)	...	...	...
Water delivered.....acre-feet...	8,648	518	4,680	(D)	...	...	...
To farm and residential users							
only.....organizations...	4	1	2	1	...	...	...
acre-feet...	8,648	518	4,680	(D)	...	...	...
To farm and residential users and other							
irrigation organizations.....organizations...	...	...	...	...	...	...	...
Water to farm and residential							
users.....acre-feet...	...	...	...	...	...	...	...
Water to other irrigation							
organizations.....acre-feet...	...	...	...	...	...	...	...
To other irrigation organizations							
only.....organizations...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
All of water from other organizations.....organizations...	3	...	1	2	...	1	...
Total water conveyed.....acre-feet...	17,663	...	4,136	(D)	...	9,747	...
Water delivered.....acre-feet...	15,709	...	4,136	(D)	...	8,773	...
To farm and residential users							
only.....organizations...	3	...	1	2	...	1	...
acre-feet...	15,709	...	4,136	(D)	...	8,773	...
To farm and residential users and other							
irrigation organizations.....organizations...	...	...	...	...	...	...	...
Water to farm and residential							
users.....acre-feet...	...	...	...	...	...	...	...
Water to other irrigation							
organizations.....acre-feet...	...	...	...	...	...	...	...
To other irrigation organizations							
only.....organizations...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
No water conveyed.....organizations...	2	...	...	...	2	...	...
WATER FROM OTHER SOURCES							
Organizations reporting no water from other							
sources used on the land served by the							
organization.....organizations...	150	103	32	14	...	7	1
acres served...	146,500	17,911	34,546	(D)	...	74,623	(D)
acres irrigated...	140,485	17,015	31,496	(D)	...	73,688	(D)
water delivered to farms (acre-feet)...	595,128	83,208	121,383	(D)	...	344,377	(D)
acre-feet per acre...	4.2	4.9	3.8	4.2	...	4.7	5.6
Organizations reporting water from other							
sources used on land served by the							
organization.....organizations...	23	10	5	7	...	4	1
acres served...	102,281	1,432	5,923	(D)	...	73,890	(D)
acres irrigated...	99,495	1,335	5,906	(D)	...	72,483	(D)
water delivered to farms (acre-feet)...	367,000	3,700	22,652	(D)	...	276,523	(D)
acre-feet per acre...	3.6	2.8	3.8	3.7	...	3.8	0.9
NEW CAPITAL INVESTMENT, 1950-1959							
Expenditures for additional new works and							
equipment for irrigation and drainage,							
January 1, 1950-December 31, 1959.....organizations...	55	23	16	15	...	8	1
By U. S. B. R. ....dollars...	1,312,432	...	498,300	(D)	...	1,312,432	...
By water users organizations.....dollars...	764,560	54,675	213,859	(D)	...	232,022	(D)

See footnotes at end of table.

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

		Columbia River below Snake River, (Oregon, Washington) (I-B)						
Item (For definitions and explanations, see text)	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other	
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users		
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959								
Total entering conveyance systems.....organizations.....	173	113	37	21	...	11	2	
acre-feet.....	1,316,521	94,379	171,651	(D)	...	903,821	(D)	
From another drainage basin.....organizations.....	1	...	...	1	...	...	...
acre-feet.....	4,364	...	...	(D)	...	...	...
From drainage basin.....D. B. No.....	...	...	...	...	...	...	...
From sources within basin.....organizations.....	170	113	36	19	...	10	2	
acre-feet.....	1,312,157	94,379	171,651	(D)	...	903,821	(D)	
Surface water.....organizations.....	159	105	33	19	...	10	2	
acre-feet.....	1,305,939	91,665	170,364	(D)	...	903,821	(D)	
Ground water.....organizations.....	13	8	4	...	...	...	1
acre-feet.....	6,218	2,914	1,287	...	...	...	(D)
From other organizations in the basin.....organizations receiving.....	7	1	3	3	...	1	...	
acre-feet.....	21,072	276	5,799	(D)	...	9,747	...	
Total leaving conveyance systems.....organizations.....	173	113	37	21	...	11	2	
acre-feet.....	1,316,521	94,855	177,174	(D)	...	898,022	(D)	
Conveyance loss in basin.....organizations.....	112	71	21	18	...	10	2	
acre-feet.....	329,590	7,689	29,211	(D)	...	268,852	(D)	
Conveyed to another drainage basin.....organizations.....	1	...	...	1	...	...	...
acre-feet.....	15,364	...	...	(D)	...	...	...
To drainage basin number.....D. B. No.....	...	...	...	...	...	...	...
Delivered for use in the basin.....organizations.....	173	113	37	21	...	11	2	
acre-feet.....	971,567	87,166	147,963	(D)	...	629,170	(D)	
To farm irrigation water users.....organizations.....	173	113	37	21	...	11	2	
acre-feet.....	952,128	86,908	144,035	(D)	...	620,900	(D)	
To domestic water users.....organizations.....	17	8	7	6	...	...	2
acre-feet.....	16,287	86	3,093	(D)	...	7,397	(D)	
For other use.....organizations.....	10	1	5	2	...	2	2	
acre-feet.....	3,152	172	835	(D)	...	873	(D)	
Delivered to other irrigation organizations.....organizations delivering.....	5	...	1	4	...	2	...	
acre-feet.....	21,072	...	276	(D)	...	15,546	...	
SIZE OF ORGANIZATION, 1959								
Size of organization (number of farm irrigation water users):								
None.....organizations.....	2	...	...	(D)	2	...	(D)
1 to 3 water users.....organizations.....	71	68	3	(D)	...	...	(D)
4 to 9 water users.....organizations.....	45	35	10	(D)	...	...	(D)
10 to 29 water users.....organizations.....	25	8	13	(D)	...	...	(D)
30 to 99 water users.....organizations.....	20	2	8	(D)	...	...	(D)
100 to 299 water users.....organizations.....	7	...	2	(D)	...	4	(D)	
300 to 999 water users.....organizations.....	5	...	1	(D)	...	3	(D)	
1,000 or more water users.....organizations.....	...	...	...	...	...	...	...
Size of organization (acre-feet of water delivered directly to farms):								
None.....organizations.....	2	...	...	(D)	2	...	(D)
1 to 299 acre-feet.....organizations.....	47	42	5	(D)	...	...	(D)
300 to 999 acre-feet.....organizations.....	56	44	10	(D)	...	...	(D)
1,000 to 2,999 acre-feet.....organizations.....	36	24	9	(D)	...	...	(D)
3,000 to 9,999 acre-feet.....organizations.....	18	3	10	(D)	...	2	(D)	
10,000 to 29,999 acre-feet.....organizations.....	9	...	3	(D)	...	3	(D)	
30,000 to 99,999 acre-feet.....organizations.....	5	...	...	(D)	...	4	(D)
100,000 or more acre-feet.....organizations.....	2	...	...	(D)	...	2	(D)
Size of organization (acre-feet of water conveyed):								
None.....organizations.....	2	...	...	(D)	2	...	(D)
1 to 299 acre-feet.....organizations.....	41	39	2	(D)	...	...	(D)
300 to 999 acre-feet.....organizations.....	57	44	12	(D)	...	...	(D)
1,000 to 2,999 acre-feet.....organizations.....	33	26	6	(D)	...	...	(D)
3,000 to 9,999 acre-feet.....organizations.....	23	4	12	(D)	...	2	(D)	
10,000 to 29,999 acre-feet.....organizations.....	9	...	4	(D)	...	1	(D)	
30,000 to 99,999 acre-feet.....organizations.....	8	...	1	(D)	...	6	(D)	
100,000 or more acre-feet.....organizations.....	2	...	...	(D)	...	2	(D)

D Data not shown to avoid disclosure of information for individual organizations.
 NA Not available.

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

Item (For definitions and explanations, see text)	Snake River below Weiser, Idaho and Snake River, Weiser, Idaho to King Hill, Idaho (I-E and I-F)							
	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other	
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users		
Irrigation organizations.....organizations 1959...	296	232	54	30	...	7	...	
1949...	334	268	54	10	2	NA	...	
Service area, 1959:								
Area served, as reported								
by organizations.....acres...	346,417	121,351	84,830	140,236	...	105,352	...	
Area irrigated, as reported								
by organizations.....acres...	322,272	107,105	80,417	134,750	...	101,699	...	
Water users served, 1959, total.....water users...	5,091	1,312	1,307	2,472	...	1,979	...	
Farm irrigation water users.....water users...	4,800	1,272	1,111	2,417	...	1,928	...	
Residential water users.....water users...	291	40	196	55	...	51	...	
Other water users.....water users...	...	...	...	...	...	...	...
TYPE OF SERVICE, 1959								
All water directly from surface and ground								
water sources.....organizations...	290	232	51	7	...	4	...	
Total water conveyed.....acre-feet...	1,391,207	394,148	247,227	749,832	...	637,728	...	
Water delivered.....acre-feet...	1,198,592	352,351	215,753	630,488	...	536,298	...	
To farm and residential users								
only.....organizations...	285	231	50	4	...	1	...	
acre-feet.....	719,716	335,026	212,738	171,952	...	95,150	...	
To farm and residential users and other								
irrigation organizations.....organizations...	5	...	...	4	...	3	...
Water to farm and residential								
users.....acre-feet...	292,902	...	2,110	290,792	...	275,124	...	
Water to other irrigation								
organizations.....acre-feet...	168,649	...	905	167,744	...	167,744	...	
To other irrigation organizations								
only.....organizations...	1	...	...	...	...	...	...
acre-feet.....	17,325	17,325	...	...	...	...	...
Part of water from other								
organizations.....organizations...	3	...	2	1	...	1	...	
Total water conveyed.....acre-feet...	203,348	...	68,083	135,265	...	135,265	...	
From surface and ground water								
sources.....acre-feet...	34,699	...	35,899	1,1,200	...	1,1,200	...	
From other irrigation organizations.....acre-feet...	168,649	...	32,184	136,465	...	136,465	...	
Water delivered.....acre-feet...	94,186	...	62,468	31,718	...	31,718	...	
To farm and residential users								
only.....organizations...	3	...	1	...	...	...	...
acre-feet.....	94,186	...	62,468	31,718	...	31,718	...	
To farm and residential users and other								
irrigation organizations.....organizations...	...	...	...	...	...	...	...
Water to farm and residential								
users.....acre-feet...	...	...	...	...	...	...	...
Water to other irrigation								
organizations.....acre-feet...	...	...	...	...	...	...	...
To other irrigation organizations								
only.....organizations...	...	...	...	...	...	...	...
acre-feet.....	...	...	...	...	...	...	...
All of water from other organizations.....organizations...	1	...	1	...	...	...	...
Total water conveyed.....acre-feet...	17,325	...	17,325	...	...	...	...
Water delivered.....acre-feet...	17,325	...	17,325	...	...	...	...
To farm and residential users								
only.....organizations...	1	...	1	...	...	...	...
acre-feet.....	17,325	...	17,325	...	...	...	...
To farm and residential users and other								
irrigation organizations.....organizations...	...	...	...	...	...	...	...
Water to farm and residential								
users.....acre-feet...	...	...	...	...	...	...	...
Water to other irrigation								
organizations.....acre-feet...	...	...	...	...	...	...	...
To other irrigation organizations								
only.....organizations...	...	...	...	...	...	...	...
acre-feet.....	...	...	...	...	...	...	...
No water conveyed.....organizations...	2	...	...	2	...	2	...
WATER FROM OTHER SOURCES								
Organizations reporting no water from other								
sources used on the land served by the								
organization.....organizations...	255	209	41	5	...	2	...	
acres served.....	293,198	105,314	63,484	124,400	...	105,016	...	
acres irrigated.....	273,609	95,180	59,215	118,914	...	101,363	...	
water delivered to farms (acre-feet)...	1,045,829	299,829	211,625	530,719	...	470,269	...	
acre-feet per acre.....	3.8	3.1	3.5	4.5	...	4.6	...	
Organizations reporting water from other								
sources used on land served by the								
organization.....organizations...	38	22	13	3	...	2	...	
acres served.....	217,650	16,037	21,346	180,267	...	162,267	...	
acres irrigated.....	213,094	11,925	20,902	180,267	...	162,267	...	
water delivered to farms (acre-feet)...	851,522	34,932	81,206	735,384	...	687,864	...	
acre-feet per acre.....	4.0	2.9	3.9	4.0	...	4.2	...	
NEW CAPITAL INVESTMENT, 1950-1959								
Expenditures for additional new works and								
equipment for irrigation and drainage,								
January 1, 1950-December 31, 1959.....organizations...	146	113	27	6	...	4	...	
By U. S. B. R.....dollars...	...	...	...	...	...	...	...
By water users organizations.....dollars...	844,893	201,779	190,201	452,913	...	420,413	...	

See footnotes at end of table.

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

Item (For definitions and explanations, see text)	Snake River below Weiser, Idaho and Snake River, Weiser, Idaho to King Hill, Idaho (I-E and I-F)						
	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users	
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
Total entering conveyance systems.....	295 1,425,906	232 394,148	54 283,126	9 748,632	...	5 637,928	..
From another drainage basin.....	2 24,283	...	...	2 24,283	...	1 11,997	..
From drainage basin.....	...	...	...	...	...	...	..
From sources within basin.....	294 1,401,623	232 394,148	53 283,126	9 724,349	...	5 1,624,971	..
Surface water.....	294 1,170,701	232 394,047	53 283,126	9 493,528	...	5 1,393,750	..
Ground water.....	3 230,922	2 101	...	...	...	1 230,821	..
From other organizations in the basin.....	4 185,974	...	3 49,509	1 136,465	...	1 136,465	..
Total leaving conveyance systems.....	295 1,425,906	232 376,823	54 331,730	9 717,353	...	5 606,649	..
Conveyance loss in basin.....	250 200,976	196 41,797	45 37,089	9 121,690	...	5 102,056	..
Conveyed to another drainage basin.....	1 101,201	...	...	1 101,201	...	1 101,201	..
To drainage basin number.....	...	...	...	...	...	...	..
Delivered for use in the basin.....	294 1,124,129	231 335,026	54 294,641	9 494,462	...	5 401,992	..
To farm irrigation water users.....	294 1,121,346	231 334,897	54 292,831	9 493,658	...	5 401,238	..
To domestic water users.....	3 2,783	3 169	6 1,810	3 804	...	1 754	..
For other use.....	...	...	...	...	...	...	..
Delivered to other irrigation organizations.....	3 185,974	1 17,325	1 905	1 167,744	...	1 167,744	..
SIZE OF ORGANIZATION, 1959							
Size of organization (number of farm irrigation water users):							
None.....	3	1	...	2	...	2	..
1 to 3 water users.....	90	90	...	...	...	...	..
4 to 9 water users.....	135	115	20	...	...	...	..
10 to 29 water users.....	50	24	26	...	...	...	..
30 to 99 water users.....	2	...	7	...	...	...	..
100 to 299 water users.....	1	...	1	...	...	...	..
300 to 999 water users.....	3	...	3	...	...	2	..
1,000 or more water users.....	2	...	...	2	...	3	..
Size of organization (acre-feet of water delivered directly to farms):							
None.....	3	1	...	2	...	2	..
1 to 299 acre-feet.....	59	57	2	...	...	...	..
300 to 999 acre-feet.....	90	79	11	...	...	...	..
1,000 to 2,999 acre-feet.....	81	66	15	...	...	...	..
3,000 to 9,999 acre-feet.....	44	26	18	...	...	...	..
10,000 to 29,999 acre-feet.....	12	3	7	2	...	...	..
30,000 to 99,999 acre-feet.....	4	...	1	3	...	1	..
100,000 or more acre-feet.....	3	...	3	3	...	4	..
Size of organization (acre-feet of water conveyed):							
None.....	2	...	...	2	...	2	..
1 to 299 acre-feet.....	47	45	2	...	...	...	..
300 to 999 acre-feet.....	88	79	9	...	...	...	..
1,000 to 2,999 acre-feet.....	80	69	11	...	...	...	..
3,000 to 9,999 acre-feet.....	54	28	22	...	...	...	..
10,000 to 29,999 acre-feet.....	16	5	9	2	...	...	..
30,000 to 99,999 acre-feet.....	3	...	1	2	...	...	..
100,000 or more acre-feet.....	4	...	...	4	...	5	..

¹Water was transferred to the basin and released to natural stream channels in excess of the quantity of surface water withdrawn by irrigation organizations. The net effect was to increase the available surface water supply in the basin or State.

IRRIGATION OF AGRICULTURAL LANDS

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

Item (For definitions and explanations, see text)	Klamath River (II-A)						
	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users	
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
Total entering conveyance systems.....organizations... acre-feet...	37 1,072,652	13 36,625	5 9,141	17 974,885	1 44,701	14 906,937	1 7,300
From another drainage basin.....organizations... acre-feet...	1 22,055	...	...	1 22,055	...	1 22,055	...
From drainage basin.....D. B. No.....	...	...	...	...	...	...	...
From sources within basin.....organizations... acre-feet...	37 1,050,997	13 36,625	5 9,141	17 952,830	1 44,701	13 884,882	1 7,300
Surface water.....organizations... acre-feet...	37 1,032,178	13 36,625	5 9,141	17 934,411	1 44,701	13 866,463	1 7,300
Ground water.....organizations... acre-feet...	1 18,419	...	...	1 18,419	...	1 18,419	...
From other organizations in the basin.....organizations receiving... acre-feet...	7 61,814	...	2 19,509	5 42,305	...	6 60,525	...
Total leaving conveyance systems.....organizations... acre-feet...	37 1,072,652	13 36,625	5 28,650	17 955,376	1 44,701	14 905,648	1 7,300
Conveyance loss in basin.....organizations... acre-feet...	28 121,214	11 4,838	5 4,682	12 111,694	...	9 111,923	...
Conveyed to another drainage basin.....organizations... acre-feet...	4 423,389	...	...	4 423,389	...	4 423,389	...
To drainage basin number.....D. B. No.....	...	...	...	...	...	...	...
Delivered for use in the basin.....organizations... acre-feet...	36 528,049	13 31,787	5 23,968	16 420,293	1 44,701	12 370,334	1 7,300
To farm irrigation water users.....organizations... acre-feet...	36 493,063	13 31,787	5 23,968	16 385,557	1 44,451	12 335,598	1 7,300
To domestic water users.....organizations... acre-feet...	3 6,250	...	...	2 6,000	2 250	...	...
For other use.....organizations... acre-feet...	1 28,736	...	...	1 28,736	...	1 28,736	...
Delivered to other irrigation organizations..... organizations delivering... acre-feet...	2 61,814	...	...	2 61,814	...	2 61,814	...
SIZE OF ORGANIZATION, 1959							
Size of organization (number of farm irrigation water users):							
None.....organizations...	...	...	...	...	...	...	...
1 to 3 water users.....organizations...	9	6	1	2	...	...	...
4 to 9 water users.....organizations...	9	6	1	2	...	1	...
10 to 29 water users.....organizations...	6	1	3	3	...	...	1
30 to 99 water users.....organizations...	10	...	2	7	1	8	...
100 to 999 water users.....organizations...	...	...	...	...	...	...	...
300 to 999 water users.....organizations...	4	...	...	4	...	4	...
1,000 or more water users.....organizations...	...	...	...	...	...	...	...
Size of organization (acre-feet of water delivered directly to farms):							
None.....organizations...	...	...	...	...	...	...	...
1 to 299 acre-feet.....organizations...	1	...	...	1	...	...	...
300 to 999 acre-feet.....organizations...	4	...	...	...	...	...	...
1,000 to 2,999 acre-feet.....organizations...	10	6	3	1	...	1	...
3,000 to 9,999 acre-feet.....organizations...	10	3	1	5	...	3	1
10,000 to 29,999 acre-feet.....organizations...	8	...	1	7	...	5	...
30,000 to 99,999 acre-feet.....organizations...	3	...	...	2	1	2	...
100,000 or more acre-feet.....organizations...	2	...	...	2	...	2	...
Size of organization (acre-feet of water conveyed):							
None.....organizations...	...	...	...	...	...	...	...
1 to 299 acre-feet.....organizations...	1	...	...	1	...	...	...
300 to 999 acre-feet.....organizations...	4	...	...	...	...	1	...
1,000 to 2,999 acre-feet.....organizations...	10	6	3	1	...	1	...
3,000 to 9,999 acre-feet.....organizations...	9	3	1	4	...	...	1
10,000 to 29,999 acre-feet.....organizations...	8	...	1	7	...	6	...
30,000 to 99,999 acre-feet.....organizations...	3	...	...	2	1	2	...
100,000 or more acre-feet.....organizations...	3	...	...	3	...	3	...

NA Not available.

¹Water was transferred to the basin and released to natural stream channels in excess of the quantity of surface water withdrawn by irrigation organizations. The net effect was to increase the available surface water supply in the basin or State.

State Table 5.—NUMBER OF IRRIGATION ORGANIZATIONS, TYPE OF SERVICE, NEW CAPITAL INVESTMENT, AND WATER CONVEYED, BY SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUS OF 1959

Oregon, total					North Pacific Coast excluding Columbia River			
Item (For definitions and explanations, see text)					(I-A)			
					Size of organization, by total water conveyed			
					0-999 acre-feet	1,000- 9,999 acre-feet	10,000- 99,999 acre-feet	100,000 or more acre-feet
1	Number of organizations.....organizations...	326	262	53	9	73	33	5
TYPE OF SERVICE								
2	All water directly from surface and ground sources.....organizations...	321	251	47	8	73	33	4
3	Total water conveyed.....acre-feet...	132,875	731,725	1,329,091	1,946,010	23,879	77,210	173,008
4	Water delivered.....acre-feet...	118,088	641,917	1,043,109	1,196,373	20,316	64,579	117,297
5	To farm and residential users only.....organizations...	321	249	41	3	73	33	3
6	.....acre-feet...	118,088	636,726	897,639	262,547	20,316	64,579	90,790
7	To farm and residential users and other	.....	.....	.....	.....	.....	.....	.....
8	irrigation organizations.....organizations...	.....	2	5	5	.....	.....	1
9	Water to farm and residential users.....acre-feet...	.....	4,010	107,089	694,521	.....	.....	16,520
10	Water to other irrigation organizations.....acre-feet...	.....	1,181	21,036	239,305	.....	.....	9,987
11	To other irrigation organizations only.....organizations...	.....	.....	1	.....	.....	.....	.....
12	.....acre-feet...	.....	.....	17,325	.....	.....	.....	.....
13	Part of water from other organizations.....organizations...	1	8	5	1	.....	.....	1
14	Total water conveyed.....acre-feet...	690	32,130	118,779	135,265	.....	.....	15,500
15	From surface and ground water sources.....acre-feet...	414	10,411	33,380	11,200	.....	.....	5,513
16	From other irrigation organizations.....acre-feet...	276	21,719	85,399	136,465	.....	.....	9,987
17	Water delivered.....acre-feet...	518	25,247	105,309	31,718	.....	.....	13,000
18	To farm and residential users only.....organizations...	1	8	5	1	.....	.....	1
19	.....acre-feet...	518	25,247	105,309	31,718	.....	.....	13,000
20	To farm and residential users and other	.....	.....	.....	.....	.....	.....	.....
21	irrigation organizations.....organizations...	.....	.....	.....	.....	.....	.....	.....
22	Water to farm and residential users.....acre-feet...	.....	.....	.....	.....	.....	.....	.....
23	Water to other irrigation organizations.....acre-feet...	.....	.....	.....	.....	.....	.....	.....
24	To other irrigation organizations only.....organizations...	.....	.....	.....	.....	.....	.....	.....
25	.....acre-feet...	.....	.....	.....	.....	.....	.....	.....
26	All of water from other organizations.....organizations...	.....	3	1	.....	.....	.....	.....
27	Total water conveyed.....acre-feet...	.....	17,663	17,325	.....	.....	.....	.....
28	Water delivered.....acre-feet...	.....	15,709	17,325	.....	.....	.....	.....
29	To farm and residential users only.....organizations...	.....	3	1	.....	.....	.....	.....
30	.....acre-feet...	.....	15,709	17,325	.....	.....	.....	.....
31	To farm and residential users and other	.....	.....	.....	.....	.....	.....	.....
32	irrigation organizations.....organizations...	.....	.....	.....	.....	.....	.....	.....
33	Water to farm and residential users.....acre-feet...	.....	.....	.....	.....	.....	.....	.....
34	Water to other irrigation organizations.....acre-feet...	.....	.....	.....	.....	.....	.....	.....
35	To other irrigation organizations only.....organizations...	.....	.....	.....	.....	.....	.....	.....
36	.....acre-feet...	.....	.....	.....	.....	.....	.....	.....
37	No water conveyed.....organizations...	4	.....	.....	.....	.....	.....	.....
WATER FROM OTHER SOURCES								
38	Organizations reporting no water from other sources used	.....	.....	.....	.....	.....	.....	.....
39	on land served by the organization.....organizations...	291	241	39	6	70	33	4
40	acres served.....	61,299	206,308	252,240	289,973	9,888	16,592	30,099
41	acres irrigated.....	44,904	196,761	234,101	284,248	7,857	16,463	29,104
42	Organizations reporting water from other sources used	.....	.....	.....	.....	.....	.....	.....
43	on land served by the organization.....organizations...	31	21	13	3	3	.....	1
44	acres served.....	9,933	22,759	86,522	212,267	287	.....	5,888
45	acres irrigated.....	7,302	21,463	82,532	212,267	212	.....	5,888
NEW CAPITAL INVESTMENT, 1950-1959								
46	Expenditures for additional new works and	.....	.....	.....	.....	.....	.....	.....
47	equipment for irrigation and drainage,	.....	.....	.....	.....	.....	.....	.....
48	January 1, 1950-December 31, 1959.....organizations...	113	125	32	7	28	19	5
49	dollars.....	347,287	1,102,502	3,943,875	4,195,204	126,735	186,307	1,254,770
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959								
50	Total entering conveyance systems in basin.....organizations...	322	262	53	9	73	33	5
51	From another drainage basin.....acre-feet...	139,289	742,136	1,362,471	1,944,810	23,879	77,210	178,521
52	From another drainage basin.....organizations...	.....	.....	.....	.....	.....	.....	.....
53	From another drainage basin.....D. B. No. ....	.....	.....	16,690	11,997	.....	.....	36,356
54	From another drainage basin.....I-F-1 .....	.....	.....	.....	.....	.....	.....	.....
55	From natural sources within basin.....organizations...	322	259	52	9	73	33	5
56	From natural sources within basin.....acre-feet...	139,289	742,136	1,345,781	1,932,853	23,879	77,210	142,168
57	Surface water.....organizations...	311	259	52	9	73	33	5
58	Surface water.....acre-feet...	129,185	739,921	1,338,581	1,683,613	23,879	77,210	134,965
59	Ground water.....organizations...	13	2	1	2	.....	.....	.....
60	Ground water.....acre-feet...	4,104	2,215	7,200	249,240	1	.....	7,200
61	From other organizations in the basin.....organizations receiving...	1	11	6	1	.....	.....	1
62	.....acre-feet...	276	39,382	102,724	136,465	.....	.....	9,987
63	Total leaving conveyance systems.....organizations...	322	262	53	9	73	33	5
64	Conveyance loss in basin.....acre-feet...	133,365	780,337	1,426,834	1,841,970	23,879	77,210	178,521
65	Conveyance loss in basin.....organizations...	225	225	43	8	46	28	3
66	Conveyed to another drainage basin.....organizations...	14,625	96,237	283,205	336,214	3,553	12,168	36,156
67	Conveyed to another drainage basin.....acre-feet...	.....	.....	1	3	.....	.....	1
68	To drainage basin number.....D. B. No. ....	.....	.....	15,364	488,234	.....	.....	22,055
69	To drainage basin number.....I-F-1 .....	.....	.....	.....	.....	.....	.....	.....
70	Delivered for use in the basin.....organizations...	322	262	52	9	73	33	5
71	To farm irrigation water users.....organizations...	118,940	684,100	1,128,265	1,017,522	20,326	65,042	120,310
72	To farm irrigation water users.....acre-feet...	322	262	52	9	73	33	5
73	To residential water users.....organizations...	118,029	673,313	1,109,659	984,032	20,246	63,375	115,541
74	To residential water users.....acre-feet...	.....	.....	.....	.....	.....	.....	.....
75	For other use.....organizations...	577	8,359	17,723	4,754	70	1,204	4,769
76	For other use.....acre-feet...	4	6	3	1	1	2	.....
77	Delivered to other irrigation organizations.....organizations delivering...	334	2,408	883	28,736	10	463	.....
78	.....acre-feet...	.....	2	5	4	.....	.....	1
79	.....	.....	1,181	38,361	239,305	.....	.....	9,987
AVERAGE DELIVERY OF IRRIGATION WATER PER ACRE, 1959								
80	Per acre irrigated, as reported by irrigation organization:	.....	.....	.....	.....	.....	.....	.....
81	All organizations.....acre-feet...	2.3	3.0	3.7	4.5	2.5	3.8	3.3
82	Organizations reporting no water from other sources used	.....	.....	.....	.....	.....	.....	.....
83	on land served by the organization.....organizations...	291	241	39	6	70	33	4
84	.....acre-feet...	2.3	3.1	3.5	3.5	2.5	3.8	3.1

¹Water was transferred to the basin and released to natural stream channels in excess of the quantity of surface water withdrawn by irrigation organizations. The net effect was to increase the available surface water supply in the basin or State.

IRRIGATION OF AGRICULTURAL LANDS

State Table 5.—NUMBER OF IRRIGATION ORGANIZATIONS, TYPE OF SERVICE, NEW CAPITAL INVESTMENT, AND WATER CONVEYED, BY SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUS OF 1959—Continued

Item (For definitions and explanations, see text)	Columbia River below Snake River, total (Oregon, Washington) (I-B)			Snake River below Weiser, Idaho and Snake River, Weiser, Idaho to King Hill, Idaho (I-E and I-F)			Klamath River (II-A)			
	Size of organization, by total water conveyed									
	0-999 acre-feet	1,000- 9,999 acre-feet	10,000 or more acre-feet	0-999 acre-feet	1,000- 9,999 acre-feet	10,000 or more acre-feet	0-999 acre-feet	1,000- 9,999 acre-feet	10,000- 99,000 acre-feet	100,000 or more acre-feet
1 Number of organizations.....organizations...	100	56	19	137	136	23	5	19	11	3
TYPE OF SERVICE										
2 All water directly from surface and ground sources.....organizations...	97	50	19	135	135	20	5	15	8	3
3 Total water conveyed.....acre-feet...	39,827	149,310	1,121,536	60,070	387,065	944,072	2,628	63,080	198,171	811,828
4 Water delivered.....acre-feet...	36,942	131,343	796,845	53,103	340,242	803,247	2,274	56,884	166,330	294,671
5 To farm and residential users only.....organizations...	97	49	15	135	134	16	5	15	7	1
6 To farm and residential users and other irrigation organizations.....organizations...	36,942	129,167	508,344	53,103	337,227	329,386	2,274	56,894	160,330	6,264
7 To farm and residential users and other irrigation organizations.....organizations...	...	1	4	...	1	4	...	...	1	2
8 Water to farm and residential users.....acre-feet...	...	1,900	267,705	...	2,110	290,792	...	...	...	226,593
9 Water to other irrigation organizations.....acre-feet...	...	276	20,796	...	905	167,744	...	...	...	61,814
10 To other irrigation organizations only.....organizations...	...	...	...	...	...	1	...	...	...	...
11 To other irrigation organizations only.....acre-feet...	...	...	...	...	...	17,325	...	...	...	...
12 Part of water from other organizations.....organizations...	1	3	...	...	1	2	...	4	3	...
13 Total water conveyed.....acre-feet...	690	8,567	...	...	6,804	196,544	...	16,759	42,000	...
14 From surface and ground water sources.....acre-feet...	414	5,434	...	...	5,899	28,800	...	1,922	2,133	...
15 From other irrigation organizations.....acre-feet...	276	3,133	...	...	905	167,744	...	17,681	44,133	...
16 Water delivered.....acre-feet...	518	8,130	...	...	4,253	89,933	...	12,864	34,094	...
17 To farm and residential users only.....organizations...	1	3	...	...	2	4	...	3	...	...
18 To farm and residential users and other irrigation organizations.....organizations...	518	8,130	...	...	4,253	89,933	...	12,864	34,094	...
19 Water to farm and residential users.....acre-feet...	...	...	...	...	...	...	...	...	...	...
20 Water to other irrigation organizations.....acre-feet...	...	...	...	...	...	...	...	...	...	...
21 To other irrigation organizations only.....organizations...	...	...	...	...	...	...	...	...	...	...
22 To other irrigation organizations only.....acre-feet...	...	...	...	...	...	...	...	...	...	...
23 All of water from other organizations.....organizations...	...	3	...	...	...	1	...	...	...	...
24 Total water conveyed.....acre-feet...	...	17,663	...	...	...	17,325	...	...	...	...
25 Water delivered.....acre-feet...	...	15,709	...	...	...	17,325	...	...	...	...
26 To farm and residential users only.....organizations...	...	3	...	...	...	1	...	...	...	...
27 To farm and residential users and other irrigation organizations.....organizations...	...	15,709	...	...	...	17,325	...	...	...	...
28 Water to farm and residential users.....acre-feet...	...	...	...	...	...	...	...	...	...	...
29 Water to other irrigation organizations.....acre-feet...	...	...	...	...	...	...	...	...	...	...
30 To other irrigation organizations only.....organizations...	...	...	...	...	...	...	...	...	...	...
31 To other irrigation organizations only.....acre-feet...	...	...	...	...	...	...	...	...	...	...
32 No water conveyed.....organizations...	2	...	...	2	...	...	...	...	...	...
WATER FROM OTHER SOURCES										
35 Organizations reporting NO water from other sources used on land served by the organization.....organizations...	86	52	12	119	122	14	5	18	11	3
36 acres served.....acres served...	12,469	35,228	98,803	29,785	107,145	156,268	817	22,231	107,190	138,337
37 acres irrigated.....acres irrigated...	10,167	33,041	97,277	23,995	102,042	150,172	808	22,284	96,985	136,265
38 Organizations reporting water from other sources used on land served by the organization.....organizations...	12	4	7	16	14	8	...	1	...	...
39 acres served.....acres served...	2,369	5,662	94,250	7,277	11,722	198,651	...	2,000	...	...
40 acres irrigated.....acres irrigated...	2,255	5,662	91,578	4,835	10,926	197,333	...	2,000	...	...
NEW CAPITAL INVESTMENT, 1950-1959										
41 Expenditures for additional new works and equipment for irrigation and drainage, January 1, 1950-December 31, 1959.....organizations...	29	13	13	56	78	12	...	12	7	2
42.....dollars...	157,955	574,133	1,344,904	62,597	235,978	546,318	...	87,584	2,131,828	2,861,259
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959										
43 Total entering conveyance systems in basin.....organizations...	98	56	19	135	136	23	5	19	10	3
44 acre-feet.....acre-feet...	40,241	154,744	1,121,536	60,070	391,564	974,272	24,683	62,158	196,038	789,773
45 From another drainage basin.....organizations...	...	...	1	...	...	2	...	...	...	...
46 acre-feet.....acre-feet...	...	...	4,364	...	...	24,283	22,055	...	...	...
47 From Drainage Basin number.....D. B. No. ....	...	...	...	...	...	...	...	...	...	...
48 From natural sources within basin.....organizations...	98	53	19	135	136	23	5	19	10	3
49 acre-feet.....acre-feet...	40,241	154,744	1,117,172	60,070	392,964	948,589	2,628	62,158	196,038	789,773
50 Organizations.....organizations...	97	53	19	135	136	23	5	19	10	3
51 Surface water.....acre-feet...	36,238	152,529	1,117,172	59,969	392,964	717,768	2,628	62,158	196,038	771,354
52 Ground water.....organizations...	11	2	...	2	...	1	...	...	...	...
53 acre-feet.....acre-feet...	4,003	2,215	...	101	...	230,821	...	...	...	18,419
54 From other organizations in the basin.....organizations receiving...	1	6	...	...	...	3	...	4	3	...
55 acre-feet.....acre-feet...	276	20,796	...	...	905	185,069	...	17,681	44,133	...
56 Total leaving conveyance systems.....organizations...	98	56	19	135	136	24	5	19	10	3
57 acre-feet.....acre-feet...	40,517	175,264	1,100,740	60,070	391,564	974,272	24,683	79,839	240,171	727,593
58 Conveyance loss in basin.....organizations...	52	44	16	112	118	20	4	17	5	2
59 acre-feet.....acre-feet...	2,733	18,413	308,444	6,967	49,374	144,235	354	10,081	31,446	79,333
60 Conveyed to another drainage basin.....organizations...	...	...	1	...	...	1	...	...	...	...
61 acre-feet.....acre-feet...	...	...	15,364	...	...	101,201	22,055	...	14,301	387,033
62 To drainage basin number.....D. B. No. ....	...	...	...	...	...	...	...	...	...	...
63 Delivered for use in the basin.....organizations...	98	56	19	135	136	23	5	19	10	3
64 acre-feet.....acre-feet...	37,784	156,851	776,932	53,103	343,590	727,436	2,274	69,758	194,424	261,593
65 To farm irrigation water users.....organizations...	98	56	19	135	136	23	5	19	10	3
66 acre-feet.....acre-feet...	36,986	148,782	766,360	53,070	342,609	725,667	2,274	69,758	192,174	228,657
67 To residential water users.....organizations...	...	5	3	...	5	...	...	...	2	1
68 For other use.....organizations...	474	6,124	9,689	33	981	1,769	...	...	2,250	4,000
69 For other use.....acre-feet...	3	4	3	...	...	...	...	...	...	...
70 To other use.....acre-feet...	324	1,945	883	...	...	...	...	...	...	28,736
71 Delivered to other irrigation organizations.....organizations delivering...	...	1	4	...	1	2	...	...	...	2
72 To other use.....acre-feet...	...	276	20,796	...	905	185,069	...	...	...	61,814
AVERAGE DELIVERY OF IRRIGATION WATER PER ACRE, 1959										
73 Per acre irrigated, as reported by irrigation organization:										
74 All organizations.....acre-feet...	2.9	3.8	4.1	2.0	3.0	4.0	2.8	2.9	2.6	3.1
75 Organizations reporting NO water from other sources used on land served by the organization.....organizations...	86	52	12	119	122	14	5	18	11	3
76 acre-feet.....acre-feet...	3.1	4.1	4.2	2.1	3.1	4.3	2.8	3.0	2.6	2.6

¹Water was transferred to the basin and released to natural stream channels in excess of the quantity of surface water withdrawn by irrigation organizations. The net effect was to increase the available surface water supply in the basin or State.

SOUTH DAKOTA

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IRRIGATION OF AGRICULTURAL LANDS

State Table 1.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY DRAINAGE BASINS:
CENSUSES OF 1959 AND 1950

Item (For definitions and explanations, see text)	The State	Missouri River (VI-C)						
		Direct	Missouri River	White River	Cheyenne River			
					Total	Cheyenne River direct	Belle Fourche River	Rapid Creek
		(1a)	(2)	(4)	(5a)	(5b)	(5c)	
1 Total acres irrigated in Census year.....1959...	115,629	28,000	...	3,000	84,000	18,000	59,000	7,000
2 1949...	84,356	2,336	...	(D)	(D)	(D)	60,056	(D)
3 Irrigation organizations.....organizations 1959...	25	...	...	2	23	2	12	9
4 1949...	24	...	...	1	23	2	12	9
5 Service area, 1959: Farm area reported served by organizations.....acres 1959...	89,454	...	...	(D)	(D)	(D)	66,944	(D)
6 Farm area reported irrigated by organizations.....acres 1959...	83,984	...	...	320	(D)	(D)	64,112	(D)
7 Water users served, total.....water users 1959...	759	...	...	(D)	(D)	(D)	528	(D)
8 Farm irrigation water users.....water users 1959...	715	...	...	(D)	(D)	(D)	505	(D)
9 Residential water users.....water users 1959...	44	...	...	(D)	(D)	...	23	(D)
10 Other water users.....water users 1959...	...	...	...	...	...	...	...	...
LAND IRRIGATED BY SOURCE OF WATER, 1959								
11 Ground water sources.....acres...	18,959	17,000	...	...	2,000	...	2,000	...
12 Surface water sources.....acres...	96,670	11,000	...	3,000	82,000	18,000	57,000	7,000
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959								
13 Total entering conveyance systems in basin.....organizations...	24	...	...	2	22	2	12	8
14 acre-feet...	169,283	...	...	(D)	(D)	(D)	103,497	(D)
15 From another drainage basin.....organizations...	1	...	...	...	1	...	1	...
16 acre-feet...	3,200	...	...	...	(D)	...	3,200	...
17 From drainage basin number.....D. E. No. ....	...	...	...	...	...	...	I-H-5	...
18 From natural sources within basin.....organizations...	23	...	...	2	21	2	11	8
19 acre-feet...	166,083	...	...	(D)	(D)	(D)	100,297	(D)
20 Surface water.....organizations...	23	...	...	2	21	2	11	8
21 acre-feet...	166,083	...	...	(D)	(D)	(D)	100,297	(D)
22 Ground water.....organizations...	...	...	...	...	...	...	...	...
23 acre-feet...	...	...	...	...	...	...	...	...
24 From other organizations in the basin.....organizations receiving...	...	...	...	...	...	...	...	...
25 acre-feet...	...	...	...	...	...	...	...	...
26 Total leaving conveyance systems.....organizations...	24	...	...	2	22	2	12	8
27 acre-feet...	169,283	...	...	(D)	(D)	(D)	103,497	(D)
28 Conveyance loss in basin.....organizations...	20	...	...	2	18	2	9	7
29 acre-feet...	69,485	...	...	(D)	(D)	(D)	52,426	(D)
30 Conveyed to another drainage basin.....organizations...	...	...	...	...	...	...	...	...
31 acre-feet...	...	...	...	...	...	...	...	...
32 To drainage basin number.....D. E. No. ....	...	...	...	...	...	...	...	...
33 Delivered for use in the basin.....organizations...	24	...	...	2	22	2	12	8
34 acre-feet...	99,798	...	...	(D)	(D)	(D)	51,071	(D)
35 To farm irrigation water users.....organizations...	24	...	...	2	22	2	12	8
36 acre-feet...	99,088	...	...	(D)	(D)	(D)	50,499	(D)
37 To residential water users.....organizations...	4	...	...	1	3	...	2	(D)
38 acre-feet...	710	...	...	(D)	(D)	...	572	(D)
39 For other use.....organizations...	...	...	...	...	...	...	...	...
40 acre-feet...	...	...	...	...	...	...	...	...
41 Delivered to other irrigation organizations.....organizations delivering...	...	...	...	...	...	...	...	...
42 acre-feet...	...	...	...	...	...	...	...	...
43 Average delivery of irrigation water per acre irrigated as reported by organizations.....acre-feet...	1.2	...	...	(D)	(D)	(D)	0.8	(D)
NEW CAPITAL INVESTMENT, 1950-1959								
44 Expenditures for additional new works and equipment for irrigation and drainage, Jan. 1, 1950-Dec. 31, 1959.....organizations...	16	...	...	...	16	2	8	8
45 dollars...	3,934,876	...	...	...	(D)	(D)	102,834	(D)

D Data not shown to avoid disclosure of information for individual organizations.

State Table 2.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950

Item (For definitions and explanations, see text)	South Dakota, total	Item (For definitions and explanations, see text)	South Dakota, total
Irrigation organizations, total number.....organizations 1959..	25	TYPE OF SERVICE, 1959	
Area irrigated as reported by organizations.....acres 1959..	83,984	All water directly from surface and ground water sources.....organizations...	24
Farm water users served directly.....water users 1959..	67,539	Total water conveyed.....acre-feet...	169,283
Total water conveyed.....acre-feet 1959..	169,283	Water delivered.....acre-feet...	99,798
TYPE OF ORGANIZATION		To farm and residential users only.....organizations...	24
Mutual:		acre-feet...	99,798
Unincorporated.....organizations 1959..	9	To farm and residential users and other irrigation organizations.....organizations...	...
1949..	13	Water to farm and residential users.....acre-feet...	...
Farm area irrigated directly.....acres 1959..	3,915	Water to other irrigation organizations.....acre-feet...	...
Farm water users served directly.....water users 1959..	43	To other irrigation organizations only.....organizations...	...
Total water conveyed.....acre-feet 1959..	5,665	acre-feet...	...
Incorporated.....organizations 1959..	11	Part of water from other organizations.....organizations...	...
1949..	8	Total water conveyed.....acre-feet...	...
Farm area irrigated directly.....acres 1959..	13,037	From surface and ground water sources.....acre-feet...	...
Farm water users served directly.....water users 1959..	190	From other irrigation organizations.....acre-feet...	...
Total water conveyed.....acre-feet 1959..	27,418	Water delivered.....acre-feet...	...
District.....organizations 1959..	1	To farm and residential users only.....organizations...	...
1949..	(D)	acre-feet...	...
Farm area irrigated directly.....acres 1959..	(D)	To farm and residential users and other irrigation organizations.....organizations...	...
Farm water users served directly.....water users 1959..	(D)	Water to farm and residential users.....acre-feet...	...
Total water conveyed.....acre-feet 1959..	(D)	Water to other irrigation organizations.....acre-feet...	...
U. S. Bureau of Reclamation; projects and storage systems operated by bureau.....organizations 1959..	2	To other irrigation organizations only.....organizations...	...
1949..	11,382	acre-feet...	...
Farm area irrigated directly.....acres 1959..	106	All of water from other organizations.....organizations...	...
Farm water users served directly.....water users 1959..	48,955	Total water conveyed.....acre-feet...	...
Total water conveyed.....acre-feet 1959..		Water delivered.....acre-feet...	...
U. S. Bureau of Reclamation; operated by water users.....organizations 1959..	1	To farm and residential users only.....organizations...	...
1949..	(D)	acre-feet...	...
Farm area irrigated directly.....acres 1959..	(D)	To farm and residential user and other irrigation organizations.....organizations...	...
Farm water users served directly.....water users 1959..	(D)	Water to farm residential users.....acre-feet...	...
Total water conveyed.....acre-feet 1959..	(D)	Water to other irrigation organizations.....acre-feet...	...
U. S. Bureau of Indian Affairs.....organizations 1959..	2	To other irrigation organizations only.....organizations...	...
1949..	1	acre-feet...	...
Farm area irrigated directly.....acres 1959..	(D)	No water conveyed.....organizations...	1
Farm water users served directly.....water users 1959..	(D)	WATER FROM OTHER SOURCES	
Total water conveyed.....acre-feet 1959..	(D)	Organizations reporting no water from other sources used on land served by the organization.....organizations...	24
Commercial.....organizations 1959..	...	acres irrigated.....	89,614
1949..	...	Water delivered to farms.....acre-feet...	84,144
Farm area irrigated directly.....acres 1959..	...	acre-feet per acre...	99,664
Farm water users served directly.....water users 1959..	...	Organizations reporting water from other sources used on land served by the organization.....organizations...	1.2
Total water conveyed.....acre-feet 1959..	...	acres served.....	...
State.....organizations 1959..	...	acres irrigated.....	...
1949..	...	Water delivered to farms.....acre-feet...	...
Farm area irrigated directly.....acres 1959..	...	acre-feet per acre...	...
Farm water users served directly.....water users 1959..	...		...
Total water conveyed.....acre-feet 1959..	...		...
City.....organizations 1959..	...		...
1949..	...		...
Farm area irrigated directly.....acres 1959..	...		...
Farm water users served directly.....water users 1959..	...		...
Total water conveyed.....acre-feet 1959..	...		...

D Data not shown to avoid disclosure of information for individual organizations.

IRRIGATION OF AGRICULTURAL LANDS

State Table 2.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Continued

Item (For definitions and explanations, see text)	South Dakota, total	Item (For definitions and explanations, see text)	South Dakota, total
WATER DELIVERED PER ACRE		SIZE OF ORGANIZATION—Continued	
Organizations reporting no water from other sources used on same land:		Size of organization (acre-feet of water delivered directly to farms):	
0.1 to 0.9 acre-feet per acre.....organizations... acres irrigated...	6 58,640	None.....organizations...	1
1.0 to 1.9 acre-feet per acre.....organizations... acres irrigated...	12 10,345	1 to 299 acre-feet.....organizations... acre-feet...	7 1,059
2.0 to 2.9 acre-feet per acre.....organizations... acres irrigated...	1 800	300 to 999 acre-feet.....organizations... acre-feet...	6 3,737
3.0 to 3.9 acre-feet per acre.....organizations... acres irrigated...	5 14,359	1,000 to 2,999 acre-feet.....organizations... acre-feet...	6 10,233
4.0 to 4.9 acre-feet per acre.....organizations... acres irrigated...	...	3,000 to 9,999 acre-feet.....organizations... acre-feet...	3 12,036
5.0 to 5.9 acre-feet per acre.....organizations... acres irrigated...	...	10,000 to 29,999 acre-feet.....organizations... acre-feet...	...
6.0 to 6.9 acre-feet per acre.....organizations... acres irrigated...	...	30,000 to 99,999 acre-feet.....organizations... acre-feet...	2
7.0 to 7.9 acre-feet per acre.....organizations... acres irrigated...	...	100,000 or more acre-feet.....organizations... acre-feet...	72,599
8.0 to 9.9 acre-feet per acre.....organizations... acres irrigated...	...		...
10.0 or more acre-feet per acre.....organizations... acres irrigated...	...		...
SIZE OF ORGANIZATION		Size of organization (acre-feet of water conveyed):	
Size of organization (number of farm irrigations water users served directly):		None.....organizations...	1
None.....organizations...	5	1 to 299 acre-feet.....organizations... acre-feet...	5
1 to 3.....organizations... water users...	11	300 to 999 acre-feet.....organizations... acre-feet...	620
4 to 9.....organizations... water users...	9	1,000 to 2,999 acre-feet.....organizations... acre-feet...	5
10 to 29.....organizations... water users...	57	3,000 to 9,999 acre-feet.....organizations... acre-feet...	2,755
30 to 99.....organizations... water users...	6	10,000 to 29,999 acre-feet.....organizations... acre-feet...	7
100 to 299.....organizations... water users...	106	30,000 to 99,999 acre-feet.....organizations... acre-feet...	11,458
300 to 999.....organizations... water users...	2	100,000 or more acre-feet.....organizations... acre-feet...	5
1,000 or more.....organizations... water users...	64		20,040
	1		...
	106		...
	1		...
	372		2
	...		138,890

Item (For definitions and explanations, see text)	South Dakota, total	Item (For definitions and explanations, see text)	South Dakota, total
Total acres irrigated.....farms reporting...	1,002	LAND IRRIGATED, BY SOURCE OF WATER TO INDIVIDUAL FARMS, 1959—Continued	
acres...	115,629	Surface sources on farm.....farms reporting...	300
Acres irrigated by sprinklers.....farms reporting...	239	acres...	24,424
acres...	20,906	Surface sources on farm only.....farms reporting...	252
Sprinklers only.....farms reporting...	194	acres...	21,947
acres...	18,032	Irrigation organization sources.....farms reporting...	571
		acres...	72,246
LAND IRRIGATED, BY SOURCE OF WATER TO INDIVIDUAL FARMS, 1959		Irrigation organization sources only.....farms reporting...	523
Ground water sources on farm.....farms reporting...	191	acres...	65,823
acres...	18,999	Both farm ground water sources and surface sources.....farms reporting...	11
Ground water sources on farm only....farms reporting...	168	acres...	1,582
acres...	17,056	Both irrigation organization and farm ground water or farm surface sources.....farms reporting...	48
		acres...	9,221

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950

Item (For definitions and explanations, see text)	South Dakota, total						
	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users	
Irrigation organizations.....organizations 1959.....	25	9	11	1	2	1	2
1949.....	24	13	8	1	1	1	1
Service area, 1959:							
Area served, as reported							
by organizations.....acres.....	89,454	5,036	14,100	(D)	12,135	(D)	(D)
Area irrigated, as reported							
by organizations.....acres.....	83,984	3,915	13,037	(D)	11,382	(D)	(D)
Water users served, 1959, total.....water users.....	759	43	233	(D)	106	(D)	(D)
Farm irrigation water users.....water users.....	715	43	190	(D)	106	(D)	(D)
Residential water users.....water users.....	44	...	43	...	...	...	(D)
Other water users.....water users.....	...	...	...	...	...	...	...
TYPE OF SERVICE, 1959							
All water directly from surface and ground							
water sources.....organizations.....	24	9	11	1	1	1	2
Total water conveyed.....acre-feet.....	169,283	5,665	27,418	(D)	48,955	(D)	(D)
Water delivered.....acre-feet.....	99,798	5,034	21,502	(D)	35,653	(D)	(D)
To farm and residential users							
only.....organizations.....	24	9	11	1	1	1	2
acre-feet.....	99,798	5,034	21,502	(D)	35,653	(D)	(D)
To farm and residential users and other							
irrigation organizations.....organizations.....	...	...	...	...	...	...	...
Water to farm and residential							
users.....acre-feet.....	...	...	...	...	...	...	...
Water to other irrigation							
organizations.....acre-feet.....	...	...	...	...	...	...	...
To other irrigation organizations							
only.....organizations.....	...	...	...	...	...	...	...
acre-feet.....	...	...	...	...	...	...	...
Part of water from other							
organizations.....organizations.....	...	...	...	...	...	...	...
Total water conveyed.....acre-feet.....	...	...	...	...	...	...	...
From surface and ground water							
sources.....acre-feet.....	...	...	...	...	...	...	...
From other irrigation organizations.....acre-feet.....	...	...	...	...	...	...	...
Water delivered.....acre-feet.....	...	...	...	...	...	...	...
To farm and residential users							
only.....organizations.....	...	...	...	...	...	...	...
acre-feet.....	...	...	...	...	...	...	...
To farm and residential users and other							
irrigation organizations.....organizations.....	...	...	...	...	...	...	...
Water to farm and residential							
users.....acre-feet.....	...	...	...	...	...	...	...
Water to other irrigation							
organizations.....acre-feet.....	...	...	...	...	...	...	...
To other irrigation organizations							
only.....organizations.....	...	...	...	...	...	...	...
acre-feet.....	...	...	...	...	...	...	...
All of water from other organizations.....organizations.....	...	...	...	...	...	...	...
Total water conveyed.....acre-feet.....	...	...	...	...	...	...	...
Water delivered.....acre-feet.....	...	...	...	...	...	...	...
To farm and residential users							
only.....organizations.....	...	...	...	...	...	...	...
acre-feet.....	...	...	...	...	...	...	...
To farm and residential users and other							
irrigation organizations.....organizations.....	...	...	...	...	...	...	...
Water to farm and residential							
users.....acre-feet.....	...	...	...	...	...	...	...
Water to other irrigation							
organizations.....acre-feet.....	...	...	...	...	...	...	...
To other irrigation organizations							
only.....organizations.....	...	...	...	...	...	...	...
acre-feet.....	...	...	...	...	...	...	...
No water conveyed.....organizations.....	1	...	...	...	1	...	...
WATER FROM OTHER SOURCES							
Organizations reporting no water from other							
sources used on the land served by the							
organization.....organizations.....	24	9	11	1	1	1	2
acres served.....	89,614	5,196	14,100	(D)	12,135	(D)	(D)
acres irrigated.....	84,144	4,075	13,037	(D)	11,382	(D)	(D)
water delivered to farms (acre-feet).....	99,664	5,610	20,870	(D)	35,653	(D)	(D)
acre-feet per acre.....	1.2	1.1	1.5	0.6	2.9	0.6	0.6
Organizations reporting water from other							
sources used on land served by the							
organization.....organizations.....	...	...	...	...	...	...	...
acres served.....	...	...	...	...	...	...	...
acres irrigated.....	...	...	...	...	...	...	...
water delivered to farms (acre-feet).....	...	...	...	...	...	...	...
acre-feet per acre.....	...	...	...	...	...	...	...
NEW CAPITAL INVESTMENT, 1950-1959							
Expenditures for additional new works and							
equipment for irrigation and drainage,							
January 1, 1950-December 31, 1959.....organizations.....	16	7	7	1	1	1	...
By U. S. B. R.....dollars.....	3,815,932	...	...	...	3,815,932	...	...
By water users organizations.....dollars.....	118,944	16,844	27,100	(D)	...	(D)	...

See footnote at end of table.

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

Item (For definitions and explanations, see text)	South Dakota, total						
	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users	
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
Total entering conveyance systems.....organizations.....	24	9	11	1	1	1	2
acre-feet.....	169,283	5,665	27,418	(D)	48,955	(D)	(D)
From another drainage basin.....organizations.....	1	1	...	...	...	...	...
acre-feet.....	3,200	3,200	...	...	...	...	...
From drainage basin.....D. B. No. ....	...	...	...	...	...	...	...
From sources within basin.....organizations.....	23	8	11	1	1	1	2
acre-feet.....	166,083	2,465	27,418	(D)	48,955	(D)	(D)
Surface water.....organizations.....	23	8	11	1	1	1	2
acre-feet.....	166,083	2,465	27,418	(D)	48,955	(D)	(D)
Ground water.....organizations.....	...	...	...	...	...	...	...
acre-feet.....	...	...	...	...	...	...	...
From other organizations in the basin.....organizations receiving.....	...	...	...	...	...	...	...
acre-feet.....	...	...	...	...	...	...	...
Total leaving conveyance systems.....organizations.....	24	9	11	1	1	1	2
acre-feet.....	169,283	5,665	27,418	(D)	48,955	(D)	(D)
Conveyance loss in basin.....organizations.....	20	6	10	1	1	1	2
acre-feet.....	69,485	631	5,916	(D)	13,302	(D)	(D)
Conveyed to another drainage basin.....organizations.....	...	...	...	...	...	...	...
acre-feet.....	...	...	...	...	...	...	...
To drainage basin number.....D. B. No. ....	...	...	...	...	...	...	...
Delivered for use in the basin.....organizations.....	24	9	11	1	1	1	2
acre-feet.....	99,798	5,034	21,502	(D)	35,653	(D)	(D)
To farm irrigation water users.....organizations.....	24	9	11	1	1	1	2
acre-feet.....	99,088	5,034	20,870	(D)	35,653	(D)	(D)
To domestic water users.....organizations.....	4	...	3	...	...	...	1
acre-feet.....	710	...	632	...	...	...	78
For other use.....organizations.....	...	...	...	...	...	...	...
acre-feet.....	...	...	...	...	...	...	...
Delivered to other irrigation organizations..... organizations delivering.....	...	...	...	...	...	...	...
acre-feet.....	...	...	...	...	...	...	...
SIZE OF ORGANIZATION, 1959							
Size of organization (number of farm irrigation water users):							
None.....organizations.....	1	...	...	(D)	1	(D)	(D)
1 to 3 water users.....organizations.....	5	3	...	(D)	...	(D)	(D)
4 to 9 water users.....organizations.....	9	6	3	(D)	...	(D)	(D)
10 to 29 water users.....organizations.....	6	...	6	(D)	...	(D)	(D)
30 to 99 water users.....organizations.....	2	...	2	(D)	...	(D)	(D)
100 to 299 water users.....organizations.....	1	...	...	(D)	1	(D)	(D)
300 to 999 water users.....organizations.....	1	...	...	(D)	...	(D)	(D)
1,000 or more water users.....organizations.....	...	...	...	...	...	(D)	...
Size of organization (acre-feet of water delivered directly to farms):							
None.....organizations.....	1	...	...	(D)	1	(D)	(D)
1 to 299 acre-feet.....organizations.....	7	6	...	(D)	...	(D)	(D)
300 to 999 acre-feet.....organizations.....	6	2	3	(D)	...	(D)	(D)
1,000 to 2,999 acre-feet.....organizations.....	6	...	6	(D)	...	(D)	(D)
3,000 to 9,999 acre-feet.....organizations.....	3	...	2	(D)	...	(D)	(D)
10,000 to 29,999 acre-feet.....organizations.....	...	...	...	...	...	(D)	...
30,000 to 99,999 acre-feet.....organizations.....	2	...	...	(D)	1	(D)	(D)
100,000 or more acre-feet.....organizations.....	...	...	...	...	...	(D)	...
Size of organization (acre-feet of water conveyed):							
None.....organizations.....	1	...	...	(D)	1	(D)	(D)
1 to 299 acre-feet.....organizations.....	5	5	...	(D)	...	(D)	(D)
300 to 999 acre-feet.....organizations.....	5	2	1	(D)	...	(D)	(D)
1,000 to 2,999 acre-feet.....organizations.....	7	1	6	(D)	...	(D)	(D)
3,000 to 9,999 acre-feet.....organizations.....	5	...	4	(D)	...	(D)	(D)
10,000 to 29,999 acre-feet.....organizations.....	...	...	...	...	...	(D)	...
30,000 to 99,999 acre-feet.....organizations.....	2	...	...	(D)	1	(D)	(D)
100,000 or more acre-feet.....organizations.....	...	...	...	...	...	(D)	...

D Data not shown to avoid disclosure of information for individual organizations.

IRRIGATION OF AGRICULTURAL LANDS

State Table 5.—NUMBER OF IRRIGATION ORGANIZATIONS, TYPE OF SERVICE, NEW CAPITAL INVESTMENT, AND WATER CONVEYED, BY SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUS OF 1959

Item (For definitions and explanations, see text)	South Dakota, total		Item (For definitions and explanations, see text)	South Dakota, total		
	Size of organization, by total water conveyed			Size of organization, by total water conveyed		
	0-999 acre-feet	1,000 or more acre-feet		0-999 acre-feet	1,000 or more acre-feet	
Number of organizations.....organizations...	11	14	WATER FROM OTHER SOURCES			
TYPE OF SERVICE						
All water directly from surface and ground sources.....organizations...	10	14	Organizations reporting no water from other sources used on land served by the organization.....organizations...	10	14	
Total water conveyed.....acre-feet...	3,375	165,908	acres served.....	4,736	84,878	
Water delivered.....acre-feet...	2,417	97,381	acres irrigated.....	2,933	81,209	
To farm and residential users only.....organizations...	10	14	Organizations reporting water from other sources used on some of the same land served by the organization.....organizations...	...	...
acre-feet...	2,417	97,381	acres served.....	...	...
To farm and residential users and other irrigation organizations.....organizations...	acres irrigated.....	...	...
Water to farm and residential users.....acre-feet...	NEW CAPITAL INVESTMENT, 1950-1959			
Water to other irrigation organizations.....acre-feet...	Expenditures for additional new works and equipment for irrigation and drainage, January 1, 1950-December 31, 1959.....organizations...	7	9	
To other irrigation organizations only.....organizations...	dollars...	7,644	3,927,232	
acre-feet...	WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959			
Part of water from other organizations.....organizations...	Total entering conveyance systems	10	14	
Total water conveyed.....acre-feet...	in basin.....organizations...	3,375	165,908	
From surface and ground water sources.....acre-feet...	From another drainage basin.....organizations...	...	1	
From other irrigation organizations.....acre-feet...	acre-feet...	...	3,200	
Water delivered.....acre-feet...	From Drainage Basin number.....D. B. No. ....	...	...
To farm and residential users only.....organizations...	From natural sources within basin.....organizations...	10	13	
acre-feet...	acre-feet...	3,375	162,708	
To farm and residential users and other irrigation organizations.....organizations...	Surface water.....organizations...	10	13	
Water to farm and residential users.....acre-feet...	acre-feet...	3,375	162,708	
Water to other irrigation organizations.....acre-feet...	Ground water.....organizations...	...	...
To other irrigation organizations only.....organizations...	acre-feet...	...	...
acre-feet...	From other organizations in the basin.....organizations receiving...	...	...
Part of water from other organizations.....organizations...	acre-feet...	...	...
Total water conveyed.....acre-feet...	Total leaving conveyance systems.....organizations...	10	14	
From surface and ground water sources.....acre-feet...	acre-feet...	3,375	165,908	
From other irrigation organizations.....acre-feet...	Conveyance loss in basin.....organizations...	7	13	
Water delivered.....acre-feet...	acre-feet...	958	68,527	
To farm and residential users only.....organizations...	Conveyed to another drainage basin.....organizations...	...	...
acre-feet...	acre-feet...	...	...
To farm and residential users and other irrigation organizations.....organizations...	To drainage basin number.....D. B. No.	10	14	
Water to farm and residential users.....acre-feet...	Delivered for use in the basin.....organizations...	2,417	97,381	
Water to other irrigation organizations.....acre-feet...	acre-feet...	10	14	
To other irrigation organizations only.....organizations...	To farm irrigation water users.....organizations...	2,339	96,749	
acre-feet...	acre-feet...	1	3	
All water from other organizations.....organizations...	To residential water users.....organizations...	78	632	
Total water conveyed.....acre-feet...	For other use.....organizations...	...	...
Water delivered.....acre-feet...	acre-feet...	...	...
To farm and residential users only.....organizations...	Delivered to other irrigation organizations.....organizations delivering...	...	...
acre-feet...	acre-feet...	...	...
To farm and residential users and other irrigation organizations.....organizations...	AVERAGE DELIVERY OF IRRIGATION WATER PER ACRE, 1959			
Water to farm and residential users.....acre-feet...	Per acre irrigated, as reported by irrigation organization:	1.4	1.2	
Water to other irrigation organizations.....acre-feet...	All organizations.....acre-feet...	...	...
To other irrigation organizations only.....organizations...	Organizations reporting no water from other sources used on the same land and reporting.....organizations...	11	14	
acre-feet...	acre-feet...	0.8	1.2	
No water conveyed.....organizations...	1	...				

TEXAS

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IRRIGATION OF AGRICULTURAL LANDS

State Table 1.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS,

Item (For definitions and explanations, see text)	The State	Gulf of Mexico excluding Mississippi River, total	Gulf of Mexico excluding Mississippi River and Rio Grande and Mermentau Rivers (V-A)							Colorado River	
			Total	Gulf of Mexico direct	Nueces River	Guadalupe River	Lavaca River	Total	Colorado River direct below Austin		
(V)	(1)	(2)	(3)	(4)	(5a)						
1 Total acres irrigated in Census year.....1959.....	5,655,638	4,091,000	3,247,000	213,000	113,000	32,000	60,000	473,000	66,000		
2 1949.....	3,150,527	2,703,283	1,828,193	281,113	90,638	11,464	60,007	116,488	71,986		
3 Irrigation organizations.....organizations 1959.....	103	102	61	17	4	13	4	11	5		
4 1949.....	122	121	67	15	9	23	6	11	5		
5 Service area, 1959:											
6 Farm area reported served by organizations.....acres 1959.....	1,399,753	1,386,282	559,351	414,531	25,950	7,258	25,541	35,811	26,660		
7 Farm area reported irrigated by organizations.....acres 1959.....	943,818	930,347	278,940	190,249	19,860	4,918	21,295	17,631	10,258		
8 Water users served, total.....water users 1959.....	33,827	30,712	3,800	943	1,375	339	105	434	35		
9 Farm irrigation water users.....water users 1959.....	24,588	24,339	2,449	928	738	339	105	228	35		
10 Residential water users.....water users 1959.....	9,124	9,124	1,282	3	597	...	...	200	...
11 Other water users.....water users 1959.....	115	113	69	12	40	...	...	6	...
12 LAND IRRIGATED BY SOURCE OF WATER, 1959											
13 Ground water sources.....acres.....	4,634,135	3,093,000	2,893,000	50,000	96,000	25,000	56,000	414,000	28,000		
14 Surface water sources.....acres.....	1,021,503	998,000	354,000	163,000	17,000	7,000	4,000	59,000	38,000		
15 WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959											
16 Total entering conveyance systems in basin.....organizations.....	103	102	51	17	4	13	4	11	4		
17 2,671,746	2,646,384	1,244,025	802,457	10,098	11,387	86,982	399,109	355,715	...		
18 From another drainage basin.....organizations.....	...	...	1	8	1	...	1	...	...
19 2,671,746	2,646,384	1,244,025	802,457	10,098	11,387	86,982	399,109	355,715	...		
20 From drainage basin number.....D. B. No. ....	...	...	V-B-1a	(1)	V-A-3	...	V-A-5a	...	...
21 From natural sources within basin.....organizations.....	92	91	49	9	3	13	3	11	4		
22 2,671,746	2,646,384	1,244,025	802,457	10,098	11,387	86,982	399,109	355,715	...		
23 Surface water.....organizations.....	80	79	39	9	3	5	1	11	4		
24 2,671,746	2,646,384	1,244,025	802,457	10,098	11,387	86,982	399,109	355,715	...		
25 Ground water.....organizations.....	19	19	11	...	...	8	3	...	...
26 33,182	33,182	10,006	...	...	4,973	5,433	...	...	...
27 From other organizations in the basin.....organizations receiving.....	19	19	1	1	...	...	...	...	...
28 100,899	100,899	12,000	12,000	...	...	...	...	...	...
29 Total leaving conveyance systems.....organizations.....	103	103	51	17	4	13	4	11	4		
30 2,671,746	2,646,384	1,244,025	802,457	10,098	11,387	86,982	399,109	355,715	...		
31 Conveyance loss in basin.....organizations.....	80	81	37	17	3	7	4	7	4		
32 470,139	470,139	116,296	91,735	891	574	2,129	8,476	7,421	...		
33 Conveyed to another drainage basin.....organizations.....	...	...	...	1	...	1	...	3	3
34 2,671,746	2,646,384	1,244,025	802,457	10,098	11,387	86,982	399,109	355,715	...		
35 To drainage basin number.....D. B. No. ....	...	...	V-A-9b	...	V-A-3	...	...	...	(2)
36 Delivered for use in the basin.....organizations.....	103	102	51	17	4	13	4	10	3		
37 2,201,607	2,176,245	1,127,729	707,522	9,207	8,450	84,853	108,885	66,546	...		
38 To farm irrigation water users.....organizations.....	102	102	51	17	4	13	4	10	3		
39 1,933,755	1,909,633	941,082	650,605	8,218	8,450	84,853	79,711	66,546	...		
40 To residential water users.....organizations.....	16	17	4	1	1	...	...	1	...
41 42,268	42,268	26,618	25	875	...	...	600	...	...
42 For other use.....organizations.....	24	23	10	5	1	...	...	2	...
43 225,584	224,344	160,029	56,892	114	...	...	28,574	...	...
44 Delivered to other irrigation organizations.....organizations delivering.....	9	9	1	1	...	...	...	...	...
45 100,899	100,899	12,000	12,000	...	...	...	...	...	...
46 Average delivery of irrigation water per acre irrigated as reported by organizations.....acre-feet.....	2.0	2.0	3.4	3.4	0.4	1.7	4.0	4.5	6.5		
47 NEW CAPITAL INVESTMENT, 1950-1959											
48 Expenditures for additional new works and equipment for irrigation and drainage, Jan. 1, 1950-Dec. 31, 1959.....organizations.....	50	50	21	7	2	2	2	4	2		
49 dollars.....	16,733,025	16,706,025	4,328,527	1,468,198	1,972,724	15,475	25,000	470,130	370,000		

D Data not shown to avoid disclosure of information for individual organizations. 1,045 acre-feet from D. B. No. V-B-1a, 82,040 acre-feet from D. B. No. V-A-8, 201,059 acre-feet from D. B. No. V-A-5a, 160,106 acre-feet from D. B. No. V-A-9b, 219,986 acre-feet from D. B. No. V-A-6a. 280,689 acre-feet to D. B. No. V-A-4, 201,059 acre-feet to D. B. No. V-A-16. 34,526 acre-feet to D. B. No. V-3-2f, 10,573 acre-feet to D. B. No. V-B-2a.

BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950

Gulf of Mexico excluding Mississippi River and Rio Grande (V-A)—Continued						Rio Grande below Fort Quitman (V-B)								Rio Grande direct above Fort Quitman (V-C)	
Colorado River—Con.		Brazos River	San Jacinto and Trinity Rivers	Sabine River	Total	Rio Grande direct			Pecos River						
Colorado River direct above Austin	Concho River					Total	Below Rio Grande City	Rio Grande City to Del Rio and Del Rio to Fort Quitman (1b, c)	Total	Pecos River direct below vicinity Grand-Falls, Texas (2a)	Pecos River direct Acme, New Mexico to Grand-Falls, Texas (2a)	Comanche Creek	Toyah Creek		
															(2b)	(2c)	(2d)	(2e)	(2f)
385,000 32,253	22,000 12,249	2,226,000 1,153,872	87,000 80,347	43,000 34,264	774,000 788,258	654,000 692,599	580,000 621,459	74,000 71,140	120,000 95,659	11,000 21,821	55,000 46,259	11,000 9,232	43,000 18,347	70,000 86,832	1
3	4	5	3	4	50	40	35	5	10	4	5	...	3	2	3
2	4	4	5	6	52	41	33	8	11	3	6	...	2	2	4
5,561	3,590	7,592	34,148	8,520	732,487	668,907	633,554	35,353	63,580	39,579	13,001	...	11,000	(D)	5
3,783	3,590	7,592	8,875	8,520	585,384	569,609	545,610	23,999	15,775	2,592	4,833	...	8,350	(D)	6
351	48	20	524	60	22,952	22,772	22,394	378	180	49	63	...	68	(D)	7
147	46	20	34	57	20,014	19,854	19,477	377	160	49	43	...	68	(D)	8
200	...	...	482	...	2,895	2,875	2,875	...	20	...	20	...	...	(D)	9
4	2	...	8	3	43	43	42	1	...	...	...	...	...	(D)	10
370,000	16,000	2,186,000	63,000	3,000	189,000	80,000	44,000	36,000	109,000	11,000	50,000	10,000	38,000	11,000	11
15,000	6,000	40,000	24,000	40,000	585,000	574,000	536,000	38,000	11,000	...	5,000	1,000	5,000	59,000	12
3	4	5	3	4	50	40	35	5	10	4	5	...	3	2	13
8,794	34,600	253,371	208,296	221,768	1,071,491	988,084	920,837	67,247	83,407	10,946	60,034	...	27,526	(D)	14
...	...	...	...	1	...	...	...	...	...	1	...	...	1	...	15
...	...	...	...	3,200	...	...	...	...	...	10,573	...	...	4,526	...	16
...	...	...	...	...	...	...	...	...	...	V-B-2b	...	...	V-B-2b	...	17
3	4	5	3	3	40	37	32	5	3	1	1	...	1	2	18
8,794	34,600	253,371	208,296	218,568	1,071,491	988,084	920,837	67,247	83,407	373	60,034	...	23,000	(D)	19
3	4	4	3	3	38	35	31	4	3	1	1	...	1	2	20
8,794	34,600	253,371	208,296	218,568	1,053,315	969,908	917,761	52,147	83,407	373	60,034	...	23,000	(D)	21
...	...	...	...	...	7	7	5	2	...	...	...	...	...	...	22
...	...	...	...	...	18,176	18,176	3,076	15,100	...	...	...	...	...	...	23
...	...	...	...	...	18	11	11	...	7	2	4	...	1	...	24
...	...	...	...	...	88,899	53,072	53,072	...	35,827	10,573	20,728	...	4,526	...	25
3	4	5	3	4	50	40	35	5	10	4	5	...	3	2	26
8,794	34,600	253,371	208,296	221,768	1,071,491	988,084	920,837	67,247	83,407	10,946	60,034	...	27,526	(D)	27
2	1	3	2	3	42	33	28	5	9	2	5	...	2	2	28
405	650	3,648	1,461	7,382	247,575	201,497	185,482	16,015	46,078	4,841	33,029	...	8,208	(D)	29
...	...	...	...	1	...	...	1	...	...	...	...	...	...	...	30
...	...	219,986	82,040	160,106	1,045	1,045	1,045	...	...	...	15,119	...	...	...	31
...	...	...	V-A-6b	...	...	...	V-B-1a	...	...	...	(?)	...	...	...	32
3	4	4	3	4	49	40	35	5	9	3	4	...	2	2	33
8,389	33,950	29,737	124,795	54,280	822,871	785,542	734,310	51,232	37,329	6,105	11,906	...	19,318	(D)	34
3	4	4	3	4	49	40	35	5	9	3	4	...	2	2	35
3,895	9,270	29,737	39,228	40,280	758,314	721,085	679,853	41,232	37,229	6,105	11,806	...	19,318	(D)	36
1	...	...	...	1	...	12	11	...	1	...	1	...	...	...	37
600	...	...	25,118	...	7,014	6,914	6,914	...	100	...	100	...	...	(D)	38
1	1	...	...	2	1	12	12	11	1	...	...	...	...	...	39
3,894	24,680	...	60,449	14,000	57,543	57,543	47,543	10,000	...	...	...	...	...	(D)	40
...	...	...	...	...	8	7	7	...	1	1	1	...	1	...	41
...	...	...	...	...	88,899	53,072	53,072	...	35,827	10,573	20,728	...	4,526	...	42
1.0	2.6	3.9	4.4	4.7	1.3	1.3	1.2	1.7	2.4	2.4	2.4	...	2.3	(D)	43
1	1	1	1	2	29	26	24	2	3	1	1	...	1	...	44
28,130	72,000	23,000	24,000	330,000	12,377,498	12,327,498	12,311,298	16,200	50,000	5,000	5,000	...	40,000	...	45

State Table 1.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY DRAINAGE BASINS:
CENSUSES OF 1959 AND 1950—Continued

Item (For definitions and explanations, see text)		Mississippi River, total	Mississippi River excluding Arkansas River and Red River direct below Lake Texhoma (VI-A)							Arkansas River, Canadian River direct below Conchas Reservoir
			Total	Red River direct above Lake Texhoma	Pease River	North and Salt Forks	Prairie Dog Town Fork			
							Total	Prairie Dog Town Fork direct	Tierra Blanca Creek	
		(VI)		(2a)	(2b)	(2c)		(2d)	(2e)	(2a)
1	Total acres irrigated in Census year.....1959.....	1,565,000	1,297,000	33,000	167,000	42,000	1,015,000	476,000	539,000	308,000
2	.....1949.....	447,244	439,569	13,212	88,083	272	334,002	163,694	170,308	11,675
3	Irrigation organizations.....organizations 1959.....	1	1	1	...	...	...	...	...	...
4	.....1949.....	1	1	1	...	...	...	...	...	...
5	Service area, 1959: Farm area reported served by organizations.....acres 1959.....	(D)	(D)	(D)	...	...	...	...	...	...
6	Farm area reported irrigated by organizations.....acres 1959.....	(D)	(D)	(D)	...	...	...	...	...	...
7	Water users served, total.....water users 1959.....	(D)	(D)	(D)	...	...	...	...	...	...
8	Farm irrigation water users.....water users 1959.....	(D)	(D)	(D)	...	...	...	...	...	...
9	Residential water users.....water users 1959.....	...	...	...	...	...	...	...	...	...
10	Other water users.....water users 1959.....	(D)	(D)	(D)	...	...	...	...	...	...
LAND IRRIGATED BY SOURCE OF WATER, 1959										
11	Ground water sources.....acres.....	1,541,000	1,236,000	19,000	165,000	41,000	1,011,000	473,000	538,000	305,000
12	Surface water sources.....acres.....	24,000	21,000	14,000	2,000	1,000	4,000	3,000	1,000	3,000
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959										
13	Total entering conveyance systems in basin.....organizations.....	1	1	1	...	...	...	...	...	...
14	.....acre-feet.....	(D)	(D)	(D)	...	...	...	...	...	...
15	From another drainage basin.....organizations.....	...	...	...	...	...	...	...	...	...
16	.....acre-feet.....	...	...	...	...	...	...	...	...	...
17	From drainage basin number.....D. B. No.....	...	...	...	...	...	...	...	...	...
18	From natural sources within basin.....organizations.....	1	1	1	...	...	...	...	...	...
19	.....acre-feet.....	(D)	(D)	(D)	...	...	...	...	...	...
20	Surface water.....organizations.....	1	1	1	...	...	...	...	...	...
21	.....acre-feet.....	(D)	(D)	(D)	...	...	...	...	...	...
22	Ground water.....organizations.....	...	...	...	...	...	...	...	...	...
23	.....acre-feet.....	...	...	...	...	...	...	...	...	...
24	From other organizations in the basin.....organizations receiving.....	...	...	...	...	...	...	...	...	...
25	.....acre-feet.....	...	...	...	...	...	...	...	...	...
26	Total leaving conveyance systems.....organizations.....	1	1	1	...	...	...	...	...	...
27	.....acre-feet.....	(D)	(D)	(D)	...	...	...	...	...	...
28	Conveyance loss in basin.....organizations.....	...	...	...	...	...	...	...	...	...
29	.....acre-feet.....	...	...	...	...	...	...	...	...	...
30	Conveyed to another drainage basin.....organizations.....	...	...	...	...	...	...	...	...	...
31	.....acre-feet.....	...	...	...	...	...	...	...	...	...
32	To drainage basin number.....D. B. No.....	...	...	...	...	...	...	...	...	...
33	Delivered for use in the basin.....organizations.....	1	1	1	...	...	...	...	...	...
34	.....acre-feet.....	(D)	(D)	(D)	...	...	...	...	...	...
35	To farm irrigation water users.....organizations.....	1	1	1	...	...	...	...	...	...
36	.....acre-feet.....	(D)	(D)	(D)	...	...	...	...	...	...
37	To residential water users.....organizations.....	...	...	...	...	...	...	...	...	...
38	.....acre-feet.....	...	...	...	...	...	...	...	...	...
39	For other use.....organizations.....	1	1	1	...	...	...	...	...	...
40	.....acre-feet.....	(D)	(D)	(D)	...	...	...	...	...	...
41	Delivered to other irrigation organizations.....organizations delivering.....	...	...	...	...	...	...	...	...	...
42	.....acre-feet.....	...	...	...	...	...	...	...	...	...
43	Average delivery of irrigation water per acre irrigated as reported by organizations.....acre-feet.....	(D)	(D)	(D)	...	...	...	...	...	...
NEW CAPITAL INVESTMENT, 1950-1959										
44	Expenditures for additional new works and equipment for irrigation and drainage, Jan. 1, 1950-Dec. 31, 1959.....organizations.....	1	1	1	...	...	...	...	...	...
45	.....dollars.....	(D)	(D)	(D)	...	...	...	...	...	...

D Data not shown to avoid disclosure of information for individual organizations.

State Table 2.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950

Item (For definitions and explanations, see text)	Texas, total	Gulf of Mexico excluding Mississippi, Rio Grande, and Mermentau Rivers		Rio Grande below Fort Quitman
		(V-A)	(V-B)	
1 Irrigation organizations, total				
2 number.....organizations 1959...	103	51	50	
1949...	122	67	52	
3 Area irrigated as reported by				
4 organizations.....acres 1959...	943,818	278,940	585,384	
1949...	1,042,714	362,089	583,397	
5 Farm water users served directly....water users 1959...	24,588	2,449	20,014	
6 Total water conveyed.....acre-feet 1959...	2,772,645	1,256,025	1,160,390	
TYPE OF ORGANIZATION				
7 Mutual:				
8 Unincorporated.....organizations 1959...	25	21	4	
1949...	34	28	6	
9 Farm area irrigated directly.....acres 1959...	17,069	15,043	2,026	
10 Farm water users served				
11 directly.....water users 1959...	201	169	32	
Total water conveyed.....acre-feet 1959...	92,935	89,475	3,460	
12 Incorporated.....organizations 1959...	4	2	2	
13 1949...	11	8	3	
14 Farm area irrigated directly.....acres 1959...	27,601	23,803	3,798	
15 Farm water users served				
16 directly.....water users 1959...	183	108	75	
Total water conveyed.....acre-feet 1959...	116,459	98,926	17,533	
17 District.....organizations 1959...	51	8	42	
18 1949...	45	5	38	
19 Farm area irrigated directly.....acres 1959...	647,223	48,452	(D)	
20 Farm water users served				
21 directly.....water users 1959...	21,490	1,258	(D)	
Total water conveyed.....acre-feet 1959...	1,324,691	132,277	(D)	
22 U. S. Bureau of Reclamation; projects and stor-				
23 age systems operated by bureau...organizations 1959...	1	...	...
1949...	2	...	1	
24 Farm area irrigated directly.....acres 1959...	59,023	...	...
25 Farm water users served				
26 directly.....water users 1959...	1,788	...	...
Total water conveyed.....acre-feet 1959...	299,762	...	...
27 U. S. Bureau of Reclamation; operated				
28 by water users organizations 1959...	3	...	3	
1949...	2	NA	NA	
29 Farm area irrigated directly.....acres 1959...	106,650	...	106,650	
30 Farm water users served				
31 directly.....water users 1959...	6,560	...	6,560	
Total water conveyed.....acre-feet 1959...	207,491	...	207,491	
32 U. S. Bureau of Indian Affairs...organizations 1959...	...	...	...
33 1949...	...	...	...
34 Farm area irrigated directly.....acres 1959...	...	...	...
35 Farm water users served				
36 directly.....water users 1959...	...	...	...
Total water conveyed.....acre-feet 1959...	...	...	...
37 Commercial.....organizations 1959...	18	16	2	
38 1949...	27	24	3	
39 Farm area irrigated directly.....acres 1959...	(D)	(D)	(D)	
40 Farm water users served				
41 directly.....water users 1959...	(D)	(D)	(D)	
Total water conveyed.....acre-feet 1959...	(D)	(D)	(D)	
42 State.....organizations 1959...	1	1	...	
43 1949...	...	...	...
44 Farm area irrigated directly.....acres 1959...	(D)	(D)	...	
45 Farm water users served				
46 directly.....water users 1959...	(D)	(D)	...	
Total water conveyed.....acre-feet 1959...	(D)	(D)	...	
47 City.....organizations 1959...	3	3	...	
48 1949...	3	2	1	
49 Farm area irrigated directly.....acres 1959...	3,768	3,768	...	
50 Farm water users served				
51 directly.....water users 1959...	11	11	...	
Total water conveyed.....acre-feet 1959...	95,111	95,111	...	

D Data not shown to avoid disclosure of information for individual organizations.
NA Not available.

State Table 2.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Continued

Item (For definitions and explanations, see text)	Texas, total	Gulf of Mexico excluding Mississippi, Rio Grande, and Mermentau Rivers	Rio Grande below Fort Quitman
		(V-A)	(V-B)
TYPE OF SERVICE, 1959			
All water directly from surface and ground water sources.....organizations...	84	49	3
Total water conveyed.....acre-feet...	2,616,143	1,242,980	1,015,888
Water delivered.....acre-feet...	1,954,653	967,089	744,569
To farm and residential users only.....organizations...	77	48	2
To farm and residential users and other irrigation organizations.....organizations...	1,506,914	826,524	437,395
Water to farm and residential users.....acre-feet...	6	1	5
Water to other irrigation organizations.....acre-feet...	347,176	128,565	218,611
To other irrigation organizations only.....organizations...	64,736	12,000	52,736
acre-feet...	1	...	...
Part of water from other organizations.....organizations...	35,827	...	35,827
Total water conveyed.....acre-feet...	8	...	...
From surface and ground water sources.....acre-feet...	65,367	...	65,367
From other irrigation organizations.....acre-feet...	55,603	...	55,603
Water delivered.....acre-feet...	9,764	...	9,764
To farm and residential users only.....organizations...	52,476	...	52,476
To farm and residential users and other irrigation organizations.....organizations...	6	...	...
Water to farm and residential users.....acre-feet...	13,247	...	13,247
Water to other irrigation organizations.....acre-feet...	2	...	...
To other irrigation organizations only.....organizations...	38,893	...	38,893
acre-feet...	336	...	336
All of water from other organizations.....organizations...	...	...	...
Total water conveyed.....acre-feet...	11	2	10
Water delivered.....acre-feet...	91,135	13,045	79,135
To farm and residential users only.....organizations...	69,793	12,611	57,182
To farm and residential users and other irrigation organizations.....organizations...	11	2	10
Water to farm residential users.....acre-feet...	69,793	12,611	57,182
Water to other irrigation organizations.....acre-feet...	...	...	...
To other irrigation organizations only.....organizations...	...	...	...
acre-feet...	...	...	...
No water conveyed.....organizations...	...	...	...
WATER FROM OTHER SOURCES			
Organizations reporting no water from other sources used on land served by the organization.....organizations...	92	49	41
acres served...	1,278,873	527,326	650,152
acres irrigated...	861,652	273,809	512,528
Water delivered to farms.....acre-feet...	1,777,350	881,608	664,207
acre-feet per acre...	2.1	3.2	1.3
Organizations reporting water from other sources used on land served by the organization.....organizations...	10	2	8
acres served...	120,880	37,500	83,380
acres irrigated...	82,166	8,265	73,901
Water delivered to farms.....acre-feet...	156,405	61,592	94,813
acre-feet per acre...	1.9	7.5	1.3

State Table 2.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Continued

Item (For definitions and explanations, see text)	Texas, total	Gulf of Mexico excluding Mississippi, Rio Grande, and Mermentau Rivers	Rio Grande below Fort Quitman
		(V-A)	(V-B)
WATER DELIVERED PER ACRE			
Organizations reporting no water from other sources used on same land:			
0.1 to 0.9 acre-feet per acre.....organizations...	12	6	7
1.0 to 1.9 acre-feet per acre.....organizations...	122,405	29,794	96,790
2.0 to 2.9 acre-feet per acre.....organizations...	26	3	22
3.0 to 3.9 acre-feet per acre.....organizations...	397,651	2,242	381,938
4.0 to 4.9 acre-feet per acre.....organizations...	20	7	7
5.0 to 5.9 acre-feet per acre.....organizations...	84,054	54,405	29,649
6.0 to 6.9 acre-feet per acre.....organizations...	16	14	...
7.0 to 7.9 acre-feet per acre.....organizations...	208,095	142,072	...
8.0 to 8.9 acre-feet per acre.....organizations...	5	4	1
9.0 to 9.9 acre-feet per acre.....organizations...	13,651	12,823	828
10.0 or more acre-feet per acre.....organizations...	6	5	1
...	28,628	28,228	400
...	3	1	2
...	6,468	3,845	2,623
...	2	2	...
...	170	170	...
...	1	...	1
...	300	...	300
...	1	1	...
...	230	230	...
SIZE OF ORGANIZATION			
Size of organization (number of farm irrigation water users served directly):			
None.....organizations...	1	...	1
1 to 3.....organizations...	15	11	4
4 to 9.....organizations...	36	26	10
10 to 29.....organizations...	21	12	9
30 to 99.....organizations...	120	63	57
100 to 299.....organizations...	23	14	9
300 to 999.....organizations...	403	233	170
1,000 or more.....organizations...	17	8	9
...	1,037	555	451
...	13	5	7
...	2,332	716	1,365
...	4	1	3
...	3,110	900	2,210
...	9	...	8
...	16,552	...	14,764
Size of organization (acre-feet of water delivered directly to farms):			
None.....organizations...	1	...	1
1 to 299 acre-feet.....organizations...	9	5	4
300 to 999 acre-feet.....organizations...	1,406	657	749
1,000 to 2,999 acre-feet.....organizations...	12	9	3
3,000 to 9,999 acre-feet.....organizations...	6,806	4,899	1,907
10,000 to 29,999 acre-feet.....organizations...	26	13	14
30,000 to 99,999 acre-feet.....organizations...	59,876	33,869	28,831
100,000 or more acre-feet.....organizations...	19	9	10
...	105,767	52,753	53,014
...	14	4	8
...	252,979	74,274	133,149
...	18	9	9
...	972,879	544,724	428,155
...	4	2	1
...	534,042	232,024	113,215
Size of organization (acre-feet of water conveyed):			
None.....organizations...	...	...	...
1 to 299 acre-feet.....organizations...	8	5	3
300 to 999 acre-feet.....organizations...	1,248	678	570
1,000 to 2,999 acre-feet.....organizations...	12	8	4
3,000 to 9,999 acre-feet.....organizations...	6,836	4,569	2,267
10,000 to 29,999 acre-feet.....organizations...	18	10	8
30,000 to 99,999 acre-feet.....organizations...	115,072	98,421	16,651
100,000 or more acre-feet.....organizations...	20	8	13
...	96,221	36,435	63,965
...	17	8	8
...	289,433	137,944	126,127
...	22	9	12
...	1,323,198	594,452	696,595
...	6	3	2
...	944,637	390,660	254,215

State Table 3.—LAND IRRIGATED BY SOURCE OF WATER, BY DRAINAGE BASINS: CENSUS OF 1959

	Item (For definitions and explanations, see text)	Texas, total	Gulf of Mexico excluding Mississippi, Rio Grande, and Mermentau Rivers	Rio Grande below Fort Quitman
			(V-A)	(V-B)
1	Total acres irrigated.....farms reporting...	27,884	16,506	5,982
2	acres...	5,655,638	3,247,124	774,137
3	Acres irrigated by sprinklers....farms reporting...	4,564	3,782	135
4	acres...	554,641	480,392	23,113
5	Sprinklers only.....farms reporting...	3,919	3,278	69
6	acres...	479,965	425,032	10,872
	LAND IRRIGATED, BY SOURCE OF WATER TO INDIVIDUAL FARMS, 1959			
7	Ground water sources on farm.....farms reporting...	19,847	14,202	871
8	acres...	4,614,720	2,882,878	180,907
9	Ground water sources on farm only.....farms reporting...	18,843	13,727	530
10	acres...	4,407,221	2,777,887	133,593
11	Surface sources on farm.....farms reporting...	2,031	1,415	402
12	acres...	202,335	123,819	64,043
13	Surface sources on farm only.....farms reporting...	1,366	1,002	262
14	acres...	140,545	90,503	43,534
15	Irrigation organization sources.....farms reporting...	7,117	1,390	5,126
16	acres...	838,583	240,427	529,187
17	Irrigation organization sources only.....farms reporting...	6,568	1,264	4,787
18	acres...	734,777	220,359	461,745
19	Both farm ground water sources and surface sources.....farms reporting...	554	386	61
20	acres...	190,977	123,692	17,110
21	Both irrigation organization and farm ground water or farm surface sources.....farms reporting...	553	127	342
22	acres...	182,118	40,683	118,155

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950

Item (For definitions and explanations, see text)	Texas, total						
	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users	
Irrigation organizations.....organizations 1959...	103	25	4	51	1	3	22
1949...	122	34	11	45	2	2	30
Service area, 1959:							
Area served, as reported							
by organizations.....acres...	1,399,753	46,380	27,601	851,650	76,114	123,328	398,008
Area irrigated, as reported							
by organizations.....acres...	943,818	17,069	27,601	647,223	59,023	106,650	192,902
Water users served, 1959, total.....water users...	33,827	201	183	25,277	6,736	6,560	1,430
Farm irrigation water users.....water users...	24,888	201	183	21,490	1,788	6,560	926
Residential water users.....water users...	9,124	...	...	3,695	4,947	...	482
Other water users.....water users...	115	...	...	92	1	...	22
TYPE OF SERVICE, 1959							
All water directly from surface and ground							
water sources.....organizations...	84	24	4	34	1	3	21
Total water conveyed.....acre-feet...	2,616,143	92,025	116,459	1,181,099	299,762	207,491	926,798
Water delivered.....acre-feet...	1,954,653	80,825	110,881	862,806	197,439	126,215	702,702
To farm and residential users							
only.....organizations...	77	24	4	28	1	2	20
To farm and residential users and other	1,506,914	80,825	110,881	555,632	197,439	84,655	562,137
irrigation organizations.....organizations...	6	...	...	5	...	1	1
Water to farm and residential							
users.....acre-feet...	347,176	...	...	218,611	...	41,520	128,565
Water to other irrigation							
organizations.....acre-feet...	64,736	...	...	52,736	...	40	12,000
To other irrigation organizations							
only.....organizations...	1	...	...	1	...	...	...
acre-feet...	35,827	...	...	35,827	...	...	...
Part of water from other							
organizations.....organizations...	8	1	...	7	...	...	...
Total water conveyed.....acre-feet...	65,367	910	...	64,457	...	...	...
From surface and ground water							
sources.....acre-feet...	55,603	600	...	55,003	...	...	...
From other irrigation organizations.....acre-feet...	9,764	310	...	9,454	...	...	...
Water delivered.....acre-feet...	52,476	850	...	51,626	...	...	...
To farm and residential users							
only.....organizations...	6	1	...	5	...	...	...
acre-feet...	13,247	850	...	12,397	...	...	...
To farm and residential users and other							
irrigation organizations.....organizations...	2	...	...	2	...	...	...
Water to farm and residential							
users.....acre-feet...	38,893	...	...	38,893	...	...	...
Water to other irrigation							
organizations.....acre-feet...	336	...	...	336	...	...	...
To other irrigation organizations							
only.....organizations...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
All of water from other organizations.....organizations...	11	...	...	10	...	...	1
Total water conveyed.....acre-feet...	91,135	...	...	79,135	...	...	12,000
Water delivered.....acre-feet...	69,793	...	...	57,913	...	...	11,880
To farm and residential users							
only.....organizations...	11	...	...	10	...	...	1
acre-feet...	69,793	...	...	57,913	...	...	11,880
To farm and residential users and other							
irrigation organizations.....organizations...	...	...	...	...	...	...	...
Water to farm and residential							
users.....acre-feet...	...	...	...	...	...	...	...
Water to other irrigation							
organizations.....acre-feet...	...	...	...	...	...	...	...
To other irrigation organizations							
only.....organizations...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
No water conveyed.....organizations...	...	...	...	...	...	...	...
WATER FROM OTHER SOURCES							
Organizations reporting no water from other							
sources used on the land served by the							
organization.....organizations...	92	84	3	43	1	2	21
acres served.....	1,278,870	23,870	25,801	770,070	76,114	112,728	383,008
acres irrigated.....	861,652	10,971	25,801	575,122	59,023	98,700	190,735
water delivered to farms (acre-feet)...	1,777,350	28,875	108,422	782,578	188,803	109,120	668,872
acre-feet per acre...	2.1	2.6	4.2	1.4	3.2	1.1	3.5
Organizations reporting water from other							
sources used on land served by the							
organization.....organizations...	10	1	1	7	...	1	1
acres served.....	120,880	22,500	1,800	81,580	...	10,600	15,000
acres irrigated.....	82,369	6,098	1,800	72,101	...	7,950	2,167
water delivered to farms (acre-feet)...	156,405	52,800	2,459	92,354	...	17,055	8,792
acre-feet per acre...	1.9	8.6	1.4	1.3	...	2.1	4.0
NEW CAPITAL INVESTMENT, 1950-1959							
Expenditures for additional new works and							
equipment for irrigation and drainage,							
January 1, 1950-December 31, 1959.....organizations...	50	7	1	32	...	3	10
By U. S. B. R.....dollars...	...	...	...	...	...	...	...
By water users organizations.....dollars...	16,733,025	393,175	1,200	15,699,447	...	865,354	639,203

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

Item (For definitions and explanations, see text)	Texas, total						
	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users	
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
Total entering conveyance systems.....organizations... acre-feet.....	103 2,671,746	25 92,625	4 116,459	51 1,236,102	1 299,762	3 207,491	2 926,798
From another drainage basin.....organizations... acre-feet.....	... ...	... ...	... ...	... ...	... ...	... ...	... ...
From drainage basin.....D. S. No.....	... ...	... ...	... ...	... ...	... ...	... ...	... ...
From sources within basin.....organizations... acre-feet.....	92 2,671,746	25 92,625	4 116,459	41 1,236,102	1 299,762	3 207,491	2 926,798
Surface water.....organizations... acre-feet.....	80 2,636,564	16 84,769	3 101,382	3 1,229,997	1 299,762	3 207,491	2 922,699
Ground water.....organizations... acre-feet.....	19 33,182	10 7,856	2 15,077	4 6,145	... ...	... ...	3 4,104
From other organizations in the basin.....organizations receiving... acre-feet.....	19 100,899	1 310	... ...	17 88,589	... ...	... ...	1 12,000
Total leaving conveyance systems.....organizations... acre-feet.....	103 2,671,746	25 92,935	4 116,459	51 1,235,792	1 299,762	3 207,451	2 926,798
Conveyance loss in basin.....organizations... acre-feet.....	80 470,139	15 11,260	4 5,578	43 264,629	1 95,551	3 65,722	1 93,121
Conveyed to another drainage basin.....organizations... acre-feet.....	... ...	... ...	... ...	... ...	... ...	... ...	... ...
To drainage basin number.....D. S. No.....	... ...	... ...	... ...	... ...	... ...	... ...	... ...
Delivered for use in the basin.....organizations... acre-feet.....	102 2,201,007	25 81,675	4 110,881	50 971,163	1 204,211	3 141,729	2 833,677
To farm irrigation water users.....organizations... acre-feet.....	102 1,933,755	25 81,675	4 110,881	50 874,932	1 188,803	3 126,175	2 677,464
To domestic water users.....organizations... acre-feet.....	15 42,268	... ...	... ...	14 8,514	1 8,636	... ...	... 25,118
For other use.....organizations... acre-feet.....	24 225,584	... ...	... ...	17 87,717	1 6,772	2 15,554	6 131,095
Delivered to other irrigation organizations.....organizations delivering... acre-feet.....	9 100,899	... ...	... ...	8 88,899	... ...	1 40	1 12,000
SIZE OF ORGANIZATION, 1959							
Size of organization (number of farm irrigation water users):							
None.....organizations... 1 to 3 water users.....organizations... 4 to 9 water users.....organizations... 10 to 29 water users.....organizations... 30 to 99 water users.....organizations... 100 to 299 water users.....organizations... 300 to 999 water users.....organizations... 1,000 or more water users.....organizations...	1 15 21 23 17 13 4 9	... 9 10 6	4 ... 1 2 1	50 163 50 874,932 14 8,514 17 87,717	1 204,211 1 188,803 1 8,636 1 6,772	3 141,729 3 126,175 15,554	2 833,677 2 677,464 131,095
Size of organization (acre-feet of water delivered directly to farms):							
None.....organizations... 1 to 299 acre-feet.....organizations... 300 to 999 acre-feet.....organizations... 1,000 to 2,999 acre-feet.....organizations... 3,000 to 9,999 acre-feet.....organizations... 10,000 to 29,999 acre-feet.....organizations... 30,000 to 99,999 acre-feet.....organizations... 100,000 or more acre-feet.....organizations...	1 9 12 26 19 14 18 4	... 7 9 ... 1 ... 1 ...	... ... 1 2 2 1 1 ...	1 1 3 12 10 10 1	... ... ... ... ... ... 1	... ... ... ... ... ... 2	... ... ... ... ... ... 6
Size of organization (acre-feet of water conveyed):							
None.....organizations... 1 to 299 acre-feet.....organizations... 300 to 999 acre-feet.....organizations... 1,000 to 2,999 acre-feet.....organizations... 3,000 to 9,999 acre-feet.....organizations... 10,000 to 29,999 acre-feet.....organizations... 30,000 to 99,999 acre-feet.....organizations... 100,000 or more acre-feet.....organizations...	... 8 12 18 20 17 22 6	... 6 ... 1 ... 1 1 ...	... ... ... 1 ... 1 1 ...	... 1 ... 7 10 14 2	... ... ... ... ... ... 1	... ... ... ... ... ... 1	... ... ... ... ... ... 2

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

Gulf of Mexico excluding Mississippi, Rio Grande, and Mermentau Rivers (V-A)								
Item (For definitions and explanations, see text)	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other	
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users		
Irrigation organizations.....organizations 1959...	51	21	2	8	...	...	20
Service area, 1959:	67	28	8	5	...	NA	26	
Area served, as reported								
by organizations.....acres...	559,351	43,770	23,803	103,880	...	...	387,898
Area irrigated, as reported								
by organizations.....acres...	278,940	15,043	23,803	48,452	...	...	191,642
Water users served, 1959, total.....water users...	3,800	169	108	2,105	...	...	1,418
Farm irrigation water users.....water users...	2,449	169	108	1,258	...	...	914
Residential water users.....water users...	1,282	...	...	800	...	...	482
Other water users.....water users...	69	...	...	47	...	...	22
TYPE OF SERVICE, 1959								
All water directly from surface and ground								
water sources.....organizations...	49	21	2	7	...	...	19
Total water conveyed.....acre-feet...	1,242,980	89,475	96,926	131,232	...	...	923,347
Water delivered.....acre-feet...	967,089	79,123	96,422	92,293	...	...	699,291
To farm and residential users								
only.....organizations...	48	21	2	7	...	...	18
acre-feet...	826,524	79,123	96,422	92,293	...	...	558,686
To farm and residential users and other								
irrigation organizations.....organizations...	1	...	...	...	...	...	1
Water to farm and residential								
users.....acre-feet...	128,565	...	...	...	...	...	128,565
Water to other irrigation								
organizations.....acre-feet...	12,000	...	...	...	...	...	12,000
To other irrigation organizations								
only.....organizations...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
Part of water from other								
organizations.....organizations...	...	...	...	...	...	...	...
Total water conveyed.....acre-feet...	...	...	...	...	...	...	...
From surface and ground water								
sources.....acre-feet...	...	...	...	...	...	...	...
From other irrigation organizations.....acre-feet...	...	...	...	...	...	...	...
Water delivered.....acre-feet...	...	...	...	...	...	...	...
To farm and residential users								
only.....organizations...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
To farm and residential users and other								
irrigation organizations.....organizations...	...	...	...	...	...	...	...
Water to farm and residential								
users.....acre-feet...	...	...	...	...	...	...	...
Water to other irrigation								
organizations.....acre-feet...	...	...	...	...	...	...	...
To other irrigation organizations								
only.....organizations...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
All of water from other organizations.....organizations...	2	...	...	...	...	...	...
Total water conveyed.....acre-feet...	13,045	...	...	1,045	...	...	12,000
Water delivered.....acre-feet...	12,611	...	...	731	...	...	11,880
To farm and residential users								
only.....organizations...	2	...	...	1	...	...	1
acre-feet...	12,611	...	...	731	...	...	11,880
To farm and residential users and other								
irrigation organizations.....organizations...	...	...	...	...	...	...	...
Water to farm and residential								
users.....acre-feet...	...	...	...	...	...	...	...
Water to other irrigation								
organizations.....acre-feet...	...	...	...	...	...	...	...
To other irrigation organizations								
only.....organizations...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
No water conveyed.....organizations...	...	...	...	...	...	...	...
WATER FROM OTHER SOURCES								
Organizations reporting no water from other								
sources used on the land served by the								
organization.....organizations...	49	20	2	8	...	...	1
acre served.....acres...	527,326	21,270	23,803	109,355	...	...	372,898
acre irrigated.....acres...	273,809	8,945	23,803	51,586	...	...	189,477
water delivered to farms (acre-feet).....acre-feet per acre...	881,608	26,323	96,422	99,642	...	...	665,222
	3.2	2.9	4.0	1.8	...	...	3.1
Organizations reporting water from other								
sources used on land served by the								
organization.....organizations...	2	1	...	...	...	...	...
acre served.....acres...	37,500	22,500	...	...	...	...	15,000
acre irrigated.....acres...	8,265	6,098	...	...	...	...	2,166
water delivered to farms (acre-feet).....acre-feet per acre...	61,592	52,800	...	...	...	...	8,793
	7.5	8.6	...	...	...	...	4.1
NEW CAPITAL INVESTMENT, 1950-1959								
Expenditures for additional new works and								
equipment for irrigation and drainage,								
January 1, 1950-December 31, 1959.....organizations...	21	6	...	6	...	...	...
By U. S. B. R.....dollars...	...	...	...	...	...	...	...
By water users organizations.....dollars...	4,328,527	390,475	...	3,336,652	...	...	601,400
See footnote at end of table.								

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

		Gulf of Mexico excluding Mississippi, Rio Grande, and Mermentau Rivers (V-A)						
Item (For definitions and explanations, see text)	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other	
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users		
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959								
Total entering conveyance systems.....organizations..... acre-feet.....	51 1,244,025	21 89,475	2 98,926	8 132,277	...	...	20 923,347
From another drainage basin.....organizations..... acre-feet.....	1 1,045	...	...	1 1,045	...	...	...
From drainage basin.....D. B. No.....	...	...	...	...	...	...	...
From sources within basin.....organizations..... acre-feet.....	49 1,242,980	21 89,475	2 98,926	7 131,232	...	...	19 923,347
Surface water.....organizations..... acre-feet.....	39 1,232,974	12 81,719	2 98,926	7 131,232	...	...	18 921,097
Ground water.....organizations..... acre-feet.....	11 10,006	9 7,756	...	2 ...	...	...	2 2,250
From other organizations in the basin.....organizations receiving..... acre-feet.....	1 12,000	...	...	...	...	...	1 12,000
Total leaving conveyance systems.....organizations..... acre-feet.....	51 1,244,025	21 89,475	2 98,926	8 132,277	...	...	20 923,347
Conveyance loss in basin.....organizations..... acre-feet.....	37 116,296	11 10,392	2 2,504	7 10,319	...	...	17 93,121
Conveyed to another drainage basin.....organizations..... acre-feet.....	...	...	...	...	...	...	...
To drainage basin number.....D. B. No.....	...	...	...	...	...	...	...
Delivered for use in the basin.....organizations..... acre-feet.....	51 1,127,729	21 79,123	2 96,422	8 121,958	...	...	20 830,226
To farm irrigation water users.....organizations..... acre-feet.....	51 941,082	21 79,123	2 96,422	8 91,524	...	...	20 674,013
To domestic water users.....organizations..... acre-feet.....	4 26,618	...	...	3 1,500	...	...	1 25,118
For other use.....organizations..... acre-feet.....	10 160,029	...	...	4 28,934	...	...	6 131,095
Delivered to other irrigation organizations..... organizations delivering..... acre-feet.....	1 12,000	...	...	...	...	...	1 12,000
SIZE OF ORGANIZATION, 1959								
Size of organization (number of farm irrigation water users):								
None.....organizations.....	...	...	...	...	...	...	...
1 to 3 water users.....organizations.....	11	7	...	...	...	...	4
4 to 9 water users.....organizations.....	12	9	...	...	...	...	3
10 to 29 water users.....organizations.....	14	5	1	2	...	...	6
30 to 99 water users.....organizations.....	8	...	...	3	...	...	4
100 to 299 water users.....organizations.....	5	...	...	2	...	...	3
300 to 999 water users.....organizations.....	1	...	...	1	...	...	...
1,000 or more water users.....organizations.....	...	...	...	...	...	...	...
Size of organization (acre-feet of water delivered directly to farms):								
None.....organizations.....	...	...	...	...	...	...	...
1 to 299 acre-feet.....organizations.....	5	5	...	...	...	...	...
300 to 999 acre-feet.....organizations.....	9	8	...	1	...	...	...
1,000 to 2,999 acre-feet.....organizations.....	13	6	...	2	...	...	5
3,000 to 9,999 acre-feet.....organizations.....	9	1	...	3	...	...	5
10,000 to 29,999 acre-feet.....organizations.....	4	...	1	...	...	...	2
30,000 to 99,999 acre-feet.....organizations.....	9	1	1	1	...	...	6
100,000 or more acre-feet.....organizations.....	2	...	...	...	...	...	2
Size of organization (acre-feet of water conveyed):								
None.....organizations.....	...	...	...	...	...	...	...
1 to 299 acre-feet.....organizations.....	5	5	...	...	...	...	...
300 to 999 acre-feet.....organizations.....	8	8	...	...	...	...	...
1,000 to 2,999 acre-feet.....organizations.....	10	5	...	1	...	...	4
3,000 to 9,999 acre-feet.....organizations.....	8	1	...	4	...	...	3
10,000 to 29,999 acre-feet.....organizations.....	8	...	1	2	...	...	4
30,000 to 99,999 acre-feet.....organizations.....	9	1	1	1	...	...	6
100,000 or more acre-feet.....organizations.....	3	...	...	...	...	...	3

NA Not available.

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

Item (For definitions and explanations, see text)	Rio Grande below Fort Quitman (V-B)						
	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users	
Irrigation organizations.....organizations 1959...	50	4	2	42	...	3	2
Service area, 1959:	52	6	3	38	1	NA	4
Area served, as reported							
by organizations.....acres...	732,487	2,610	(D)	715,969	...	123,328	(D)
Area irrigated, as reported							
by organizations.....acres...	585,384	2,026	(D)	578,300	...	106,650	(D)
Water users served, 1959, total.....water users...	22,952	32	(D)	22,833	...	6,566	(D)
Farm irrigation water users.....water users...	20,014	32	(D)	19,895	...	6,560	(D)
Residential water users.....water users...	2,895	...	...	2,895	...	...	...
Other water users.....water users...	43	...	...	43	...	6	...
TYPE OF SERVICE, 1959							
All water directly from surface and ground							
water sources.....organizations...	32	3	2	25	...	3	2
Total water conveyed.....acre-feet...	1,015,888	2,550	(D)	992,354	...	207,491	(D)
Water delivered.....acre-feet...	744,569	1,702	(D)	724,997	...	126,215	(D)
To farm and residential users							
only.....organizations...	26	2	19	...	...	2	2
acre-feet...	437,395	1,702	(D)	417,783	...	84,655	(D)
To farm and residential users and other							
irrigation organizations.....organizations...	5	...	...	5	...	1	...
Water to farm and residential							
users.....acre-feet...	218,611	...	...	218,611	...	41,520	...
Water to other irrigation							
organizations.....acre-feet...	52,736	...	...	52,736	...	40	...
To other irrigation organizations							
only.....organizations...	1	...	...	1	...	...	...
acre-feet...	35,827	...	...	35,827	...	...	...
Part of water from other							
organizations.....organizations...	8	1	...	7	...	...	...
Total water conveyed.....acre-feet...	65,367	910	...	64,457	...	...	...
From surface and ground water							
sources.....acre-feet...	55,603	600	...	55,003	...	...	...
From other irrigation organizations.....acre-feet...	9,764	310	...	9,454	...	...	...
Water delivered.....acre-feet...	52,476	850	...	51,626	...	...	...
To farm and residential users							
only.....organizations...	6	1	...	5	...	...	...
acre-feet...	13,247	850	...	12,397	...	...	...
To farm and residential users and other							
irrigation organizations.....organizations...	2	...	...	2	...	...	...
Water to farm and residential							
users.....acre-feet...	38,893	...	...	38,893	...	...	...
Water to other irrigation							
organizations.....acre-feet...	336	...	...	336	...	...	...
To other irrigation organizations							
only.....organizations...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
All of water from other organizations.....organizations...	10	...	...	10	...	...	...
Total water conveyed.....acre-feet...	79,135	...	...	79,135	...	...	...
Water delivered.....acre-feet...	57,182	...	...	57,182	...	...	...
To farm and residential users							
only.....organizations...	10	...	...	10	...	...	...
acre-feet...	57,182	...	...	57,182	...	...	...
To farm and residential users and other							
irrigation organizations.....organizations...	...	...	...	...	...	...	...
Water to farm and residential							
users.....acre-feet...	...	...	...	...	...	...	...
Water to other irrigation							
organizations.....acre-feet...	...	...	...	...	...	...	...
To other irrigation organizations							
only.....organizations...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
No water conveyed.....organizations...	...	...	...	...	...	...	...
WATER FROM OTHER SOURCES							
Organizations reporting no water from other							
sources used on the land served by the							
organization.....organizations...	41	4	1	34	...	2	2
acre served...	650,152	2,610	(D)	635,434	...	112,728	(D)
acres irrigated...	512,528	2,026	(D)	507,244	...	98,700	(D)
water delivered to farms (acre-feet)...	664,207	2,552	(D)	646,204	...	109,120	(D)
acres-feet per acre...	1.3	1.3	(D)	1.3	...	1.1	2.7
Organizations reporting water from other							
sources used on land served by the							
organization.....organizations...	8	...	1	7	...	1	...
acre served...	83,380	...	(D)	81,580	...	10,600	...
acres irrigated...	73,901	...	(D)	72,101	...	7,950	...
water delivered to farms (acre-feet)...	94,813	...	(D)	92,354	...	17,055	...
acres-feet per acre...	1.3	...	(D)	1.3	...	2.1	...
NEW CAPITAL INVESTMENT, 1950-1959							
Expenditures for additional new works and							
equipment for irrigation and drainage,							
January 1, 1950-December 31, 1959.....organizations...	29	1	1	26	...	3	1
By U. S. B. R. ....dollars...					...	...	...
By water users organizations.....dollars...	12,377,498	2,700	(D)	715,969	...	865,554	(D)

See footnotes at end of table.

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

Rio Grande below Fort Quitman (V-B)							
Item (For definitions and explanations, see text)	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users	
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
Total entering conveyance systems.....organizations...	50	4	2	42	...	3	2
acre-feet...	1,071,491	3,150	(B)	1,047,357	...	207,491	(B)
From another drainage basin.....organizations...	...	...	...	...	...	...	...
From drainage basin.....D. B. No.....	...	...	...	...	...	...	...
From sources within basin.....organizations...	40	4	2	32	...	3	2
acre-feet...	1,071,491	3,150	(B)	1,047,357	...	207,491	(B)
Surface water.....organizations...	38	4	1	31	...	3	2
acre-feet...	1,053,315	3,050	(B)	1,046,212	...	207,491	(B)
Ground water.....organizations...	1	...	...	...	...	...	...
acre-feet...	18,176	100	(B)	1,145	...	...	(B)
From other organizations in the basin.....organizations receiving...	18	1	...	17	...	...	...
acre-feet...	88,899	310	...	88,589	...	...	...
Total leaving conveyance systems.....organizations...	50	4	2	42	...	3	2
acre-feet...	1,071,491	3,460	(B)	1,047,047	...	207,451	(B)
Conveyance loss in basin.....organizations...	42	...	2	36	...	3	...
acre-feet...	247,575	908	(B)	243,593	...	65,722	...
Conveyed to another drainage basin.....organizations...	1	...	...	1	...	...	...
acre-feet...	1,045	...	...	1,045	...	...	...
To drainage basin number.....D. B. No.....	...	...	...	...	...	...	...
Delivered for use in the basin.....organizations...	49	4	2	41	...	3	2
acre-feet...	822,871	2,552	(B)	802,409	...	141,729	(B)
To farm irrigation water users.....organizations...	49	4	2	41	...	3	2
acre-feet...	758,314	2,552	(B)	737,852	...	126,175	(B)
To domestic water users.....organizations...	12	...	...	12	...	...	...
acre-feet...	7,014	...	...	7,014	...	...	...
For other use.....organizations...	12	...	...	12	...	2	...
acre-feet...	57,543	...	...	57,543	...	15,554	...
Delivered to other irrigation organizations.....organizations delivering...	8	...	...	8	...	1	...
acre-feet...	88,899	...	...	88,899	...	40	...
SIZE OF ORGANIZATION, 1959							
Size of organization (number of farm irrigation water users):							
None.....organizations...	1	...	(B)	1	...	...	(B)
1 to 3 water users.....organizations...	4	2	(B)	1	...	...	(B)
4 to 9 water users.....organizations...	9	1	(B)	7	...	...	(B)
10 to 29 water users.....organizations...	9	...	(B)	7	...	...	(B)
30 to 99 water users.....organizations...	7	...	(B)	8	...	1	(B)
100 to 299 water users.....organizations...	7	...	(B)	7	...	...	(B)
300 to 999 water users.....organizations...	3	...	(B)	3	...	...	(B)
1,000 or more water users.....organizations...	8	...	(B)	8	...	2	(B)
Size of organization (acre-feet of water delivered directly to farms):							
None.....organizations...	1	...	(B)	1	...	...	(B)
1 to 299 acre-feet.....organizations...	4	2	(B)	1	...	...	(B)
300 to 999 acre-feet.....organizations...	3	1	(B)	2	...	...	(B)
1,000 to 2,999 acre-feet.....organizations...	14	1	(B)	12	...	...	(B)
3,000 to 9,999 acre-feet.....organizations...	10	...	(B)	9	...	...	(B)
10,000 to 29,999 acre-feet.....organizations...	8	...	(B)	7	...	1	(B)
30,000 to 99,999 acre-feet.....organizations...	9	...	(B)	9	...	2	(B)
100,000 or more acre-feet.....organizations...	1	...	(B)	1	...	...	(B)
Size of organization (acre-feet of water conveyed):							
None.....organizations...	...	...	...	...	...	...	...
1 to 299 acre-feet.....organizations...	3	1	(B)	1	...	...	(B)
300 to 999 acre-feet.....organizations...	4	2	(B)	2	...	...	(B)
1,000 to 2,999 acre-feet.....organizations...	8	1	(B)	6	...	...	(B)
3,000 to 9,999 acre-feet.....organizations...	13	...	(B)	12	...	...	(B)
10,000 to 29,999 acre-feet.....organizations...	8	...	(B)	7	...	1	(B)
30,000 to 99,999 acre-feet.....organizations...	12	...	(B)	11	...	...	(B)
100,000 or more acre-feet.....organizations...	2	...	(B)	2	...	1	(B)

D Data not shown to avoid disclosure of information for individual operations.
NA Not available.

State Table 5.—NUMBER OF IRRIGATION ORGANIZATIONS, TYPE OF SERVICE, NEW CAPITAL INVESTMENT, AND WATER CONVEYED, BY SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUS OF 1959

Item (For definitions and explanations, see text)		Texas, total				Gulf of Mexico excluding Mississippi, Rio Grande, and Mermentau Rivers (V-A)			
		Size of organization, by total water conveyed							
		0-999 acre-feet	1,000- 9,999 acre-feet	10,000- 99,999 acre-feet	100,000 or more acre-feet	0-999 acre-feet	1,000- 9,999 acre-feet	10,000- 99,999 acre-feet	100,000 or more acre-feet
1	Number of organizations.....organizations...	20	38	39	6	13	18	17	3
TYPE OF SERVICE									
2	All water directly from surface and ground sources.....organizations...	17	27	34	6	13	18	15	3
3	Total water conveyed.....acre-feet...	6,325	164,811	1,500,370	944,637	5,247	130,677	716,396	390,660
4	Water delivered.....acre-feet...	6,034	94,306	1,134,015	720,278	5,056	68,299	551,710	342,024
5	To farm and residential users only.....organizations...	17	27	28	5	13	18	15	2
6	To farm and residential users only.....acre-feet...	6,034	94,306	826,841	579,713	5,056	68,299	551,710	201,459
7	To farm and residential users and other irrigation organizations.....organizations...	...	...	5	1	...	...	...	1
8	Water to farm and residential users.....acre-feet...	...	...	218,611	128,565	...	...	...	128,565
9	Water to other irrigation organizations.....acre-feet...	...	...	52,736	12,000	...	...	...	12,000
10	To other irrigation organizations only.....organizations...	...	...	1	...	...	...	...	...
11	To other irrigation organizations only.....acre-feet...	...	...	35,827	...	...	...	...	...
12	Part of water from other organizations.....organizations...	2	5	1	...	...	...	...	...
13	Total water conveyed.....acre-feet...	1,594	16,299	47,474	...	...	...	...	...
14	From surface and ground water sources.....acre-feet...	691	7,645	47,267	...	...	...	...	...
15	From other irrigation organizations.....acre-feet...	903	8,654	207	...	...	...	...	...
16	Water delivered.....acre-feet...	1,534	14,820	36,122	...	...	...	...	...
17	To farm and residential users only.....organizations...	2	4	...	...	...	...	...	...
18	To farm and residential users only.....acre-feet...	1,534	11,713	...	...	...	...	...	...
19	To farm and residential users and other irrigation organizations.....organizations...	...	...	1	...	...	...	...	...
20	Water to farm and residential users.....acre-feet...	...	3,036	35,827	...	...	...	...	...
21	Water to other irrigation organizations.....acre-feet...	...	71	265	...	...	...	...	...
22	To other irrigation organizations only.....organizations...	...	...	...	...	...	...	...	...
23	To other irrigation organizations only.....acre-feet...	...	...	...	...	...	...	...	...
24	All of water from other organizations.....organizations...	1	7	3	...	...	1	1	...
25	Total water conveyed.....acre-feet...	165	30,183	60,787	...	...	1,045	12,000	...
26	Water delivered.....acre-feet...	124	17,880	51,789	...	...	706	11,905	...
27	To farm and residential users only.....organizations...	1	7	3	...	...	...	1	...
28	To farm and residential users only.....acre-feet...	124	17,880	51,789	...	...	706	11,905	...
29	To farm and residential users and other irrigation organizations.....organizations...	...	...	...	...	...	...	...	...
30	Water to farm and residential users.....acre-feet...	...	...	...	...	...	...	...	...
31	Water to other irrigation organizations.....acre-feet...	...	...	...	...	...	...	...	...
32	To other irrigation organizations only.....organizations...	...	...	...	...	...	...	...	...
33	To other irrigation organizations only.....acre-feet...	...	...	...	...	...	...	...	...
34	No water conveyed.....organizations...	...	...	...	...	...	...	...	...
WATER FROM OTHER SOURCES									
35	Organizations reporting no water from other sources used on land served by the organization.....organizations...	20	34	32	6	13	18	15	3
36	acres served.....acres served...	17,912	147,016	810,382	303,363	2,708	61,586	373,636	89,396
37	acres irrigated.....acres irrigated...	5,378	74,170	503,985	278,119	2,028	42,162	140,223	89,396
38	Organizations reporting water from other sources used on land served by the organization.....organizations...	...	4	6	...	...	...	2	...
39	acres served.....acres served...	...	13,685	107,195	...	...	...	37,500	...
40	acres irrigated.....acres irrigated...	...	10,617	71,549	...	...	...	8,265	...
NEW CAPITAL INVESTMENT, 1950-1959									
41	Expenditures for additional new works and equipment for irrigation and drainage, January 1, 1950-December 31, 1959.....organizations...	3	17	27	3	2	8	10	1
42	dollars.....dollars...	20,475	2,440,600	12,701,396	1,570,554	15,901	2,106,454	2,061,172	145,000
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959									
43	Total entering conveyance systems in basin.....organizations...	20	38	39	6	13	19	16	3
44	acre-feet.....acre-feet...	7,016	172,456	1,547,637	944,637	5,247	131,722	716,396	390,660
45	From another drainage basin.....organizations...	...	...	...	...	...	1,045	...	...
46	From drainage basin number.....D. B. No.....	...	...	...	...	...	...	...	...
47	From natural sources within basin.....organizations...	19	31	36	6	13	18	15	3
48	acre-feet.....acre-feet...	7,016	172,456	1,547,637	944,637	5,247	130,677	716,396	390,660
49	Surface water.....organizations...	12	27	35	6	15	15	15	3
50	acre-feet.....acre-feet...	4,013	162,277	1,527,637	944,637	2,344	123,574	716,396	390,660
51	Ground water.....organizations...	8	9	2	...	7	4	...	...
52	acre-feet.....acre-feet...	3,003	10,179	20,000	...	2,903	7,103	...	...
53	From other organizations in the basin.....organizations receiving...	3	12	4	...	...	...	1	...
54	acre-feet.....acre-feet...	1,068	38,837	60,994	...	...	...	12,000	...
55	Total leaving conveyance systems.....organizations...	20	38	39	6	13	19	16	3
56	acre-feet.....acre-feet...	8,084	211,222	1,519,803	932,637	5,247	131,722	728,396	378,660
57	Conveyance loss in basin.....organizations...	9	31	35	5	5	14	15	3
58	acre-feet.....acre-feet...	372	24,730	248,830	196,187	191	4,235	63,234	48,636
59	Conveyed to another drainage basin.....organizations...	...	...	...	...	...	...	...	...
60	acre-feet.....acre-feet...	...	...	...	...	...	...	...	...
61	To drainage basin number.....D. B. No.....	...	...	...	...	...	...	...	...
62	Delivered for use in the basin.....organizations...	20	39	38	6	13	19	16	3
63	acre-feet.....acre-feet...	7,712	186,492	1,270,953	736,450	5,056	127,487	665,162	330,024
64	To farm irrigation water users.....organizations...	20	39	37	6	13	19	16	3
65	acre-feet.....acre-feet...	7,712	98,010	1,128,391	699,642	5,056	42,412	563,590	330,024
66	To residential water users.....organizations...	...	...	...	...	...	...	...	...
67	acre-feet.....acre-feet...	...	28,925	4,707	8,636	...	26,618	...	...
68	For other use.....organizations...	...	4	17	3	...	3	...	...
69	acre-feet.....acre-feet...	...	59,557	137,855	28,172	...	58,457	101,572	...
70	Delivered to other irrigation organizations.....organizations delivering...	...	1	7	1	...	...	1	...
71	acre-feet.....acre-feet...	...	71	88,828	12,000	...	...	...	12,000
AVERAGE DELIVERY OF IRRIGATION WATER PER ACRE, 1959									
Per acre irrigated, as reported by irrigation organization:									
72	All organizations.....acre-feet...	1.4	1.1	2.0	2.3	2.5	1.1	4.1	3.7
73	Organizations reporting no water from other sources used on land served by the organization.....organizations...	20	34	32	6	13	18	15	3
74	acre-feet.....acre-feet...	1.4	1.2	1.9	2.0	2.5	1.2	3.5	2.1

State Table 5.—NUMBER OF IRRIGATION ORGANIZATIONS, TYPE OF SERVICE, NEW CAPITAL INVESTMENT, AND WATER CONVEYED, BY SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUS OF 1959—Continued

Item (For definitions and explanations, see text)	Rio Grande below Fort Quitman (V-B)		
	Size of organization, by total water conveyed		
	0-999 acre-feet	1,000-9,999 acre-feet	10,000 or more acre-feet
1 Number of organizations.....organizations...	7	21	22
TYPE OF SERVICE			
2 All water directly from surface and ground sources.....organizations...	4	9	19
3 Total water conveyed.....acre-feet...	1,078	34,134	980,676
4 Water delivered.....acre-feet...	998	26,007	717,564
5 To farm and residential users only.....organizations...	4	9	13
6 To farm and residential users and other irrigation organizations.....organizations...	998	26,007	410,390
7 Water to farm and residential users.....acre-feet...	...	...	5
8 Water to other irrigation organizations.....acre-feet...	...	...	218,611
9 To other irrigation organizations only.....organizations...	...	...	52,736
10 To other irrigation organizations only.....acre-feet...	...	...	1
11 Part of water from other organizations.....organizations...	2	5	35,827
12 Total water conveyed.....acre-feet...	1,594	16,299	47,474
13 From surface and ground water sources.....acre-feet...	691	7,645	47,267
14 From other irrigation organizations.....acre-feet...	903	8,654	207
15 Water delivered.....acre-feet...	1,534	14,820	36,122
16 To farm and residential users only.....organizations...	2	4	...
17 To farm and residential users and other irrigation organizations.....organizations...	1,534	11,713	...
18 Water to farm and residential users.....acre-feet...	...	3,036	35,857
19 Water to other irrigation organizations.....acre-feet...	...	71	265
20 To other irrigation organizations only.....organizations...	...	...	...
21 To other irrigation organizations only.....acre-feet...	...	...	...
22 All of water from other organizations.....organizations...	1	7	2
23 Total water conveyed.....acre-feet...	165	30,183	48,787
24 Water delivered.....acre-feet...	124	17,149	39,909
25 To farm and residential users only.....organizations...	1	7	2
26 To farm and residential users and other irrigation organizations.....organizations...	124	17,149	39,909
27 Water to farm and residential users.....acre-feet...	...	...	...
28 Water to other irrigation organizations.....acre-feet...	...	...	...
29 To other irrigation organizations only.....organizations...	...	...	...
30 To other irrigation organizations only.....acre-feet...	...	...	...
31 No water conveyed.....organizations...	...	...	...
WATER FROM OTHER SOURCES			
32 Organizations reporting no water from other sources used on land served by the organization.....organizations...	7	17	17
33 acres served.....	15,204	94,150	540,798
34 acres irrigated.....	3,350	38,387	470,791
35 Organizations reporting water from other sources used on land served by the organization.....organizations...	...	4	4
36 acres served.....	...	13,685	69,695
37 acres irrigated.....	...	10,617	63,284
NEW CAPITAL INVESTMENT, 1950-1959			
38 Expenditures for additional new works and equipment for irrigation and drainage, January 1, 1950-December 31, 1959.....dollars...	1	10	18
39 WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959	5,000	333,720	12,038,778
40 Total entering conveyance systems in basin.....organizations...	7	21	22
41 acre-feet.....	1,769	41,779	1,027,943
42 From another drainage basin.....organizations...	...	...	...
43 From Drainage Basin number.....D. B. No.....	...	...	...
44 From natural sources within basin.....organizations...	6	14	20
45 Surface water.....acre-feet...	1,769	41,779	1,027,943
46 Ground water.....acre-feet...	1,669	38,703	1,012,943
47 From other organizations in the basin.....organizations receiving...	1	5	1
48 acre-feet.....	100	3,076	15,000
49 From other organizations in the basin.....organizations receiving...	1,068	38,837	48,994
50 Total leaving conveyance systems.....organizations...	7	21	22
51 acre-feet.....	2,837	80,545	988,109
52 Conveyance loss in basin.....organizations...	4	18	20
53 Delivered for use in the basin.....organizations...	181	20,495	226,899
54 Conveyed to another drainage basin.....organizations...	...	1,045	...
55 To drainage basin number.....D. B. No.....	...	...	...
56 Delivered for use in the basin.....organizations...	7	21	...
57 To farm irrigation water users.....organizations...	2,656	59,005	761,210
58 To residential water users.....organizations...	2,656	55,598	700,060
59 For other use.....organizations...	...	5	7
60 Delivered to other irrigation organizations.....organizations delivering...	...	2,307	4,707
61 acre-feet.....	...	1,100	11
62 AVERAGE DELIVERY OF IRRIGATION WATER PER ACRE, 1959	...	...	56,443
63 Per acre irrigated, as reported by irrigation organization:	...	...	7
64 All organizations.....acre-feet...	...	71	88,828
65 Organizations reporting no water from other sources used on land served by the organization.....organizations...	0.8	1.2	1.3
66 acre-feet.....	7	17	17
67 acre-feet.....	0.8	1.3	1.3

UTAH

(323)

IRRIGATION OF AGRICULTURAL LANDS

State Table 1.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS,

Item (For definitions and explanations, see text)	The State	North Pacific Coast: Snake River, King Hill, Idaho, to American Falls, Idaho (I-O)			Great Basin	Bonneville Basin excluding Bear River (III-D)			
		Total	Upper Goose Creek	Raft River		Total	Great Salt Lake Basin excluding Bear River		
							Total	Northwest Great Salt Lake Basin	Southwest Great Salt Lake Basin
			(4)	(5)				(1)	(2)
1 Total acres irrigated in Census year.....1959...	1,061,683	5,000	1,000	4,000	787,000	592,000	320,000	10,000	11,000
2 1949.....	1,166,972	6,320	510	5,810	856,568	669,906	356,124	14,470	13,987
3 Irrigation organizations.....organizations 1959...	984	7	...	7	814	676	420	8	22
4 1949.....	1,058	7	...	7	871	732	450	10	22
5 Service area, 1959: Farm area reported served by organizations.....acres 1959...	1,300,483	5,640	...	5,640	944,774	738,026	377,385	9,540	14,340
6 Farm area reported irrigated by organizations.....acres 1959...	1,109,620	4,280	...	4,280	795,207	606,211	347,251	6,970	10,138
7 Water users served, total.....water users 1959...	90,952	51	...	51	81,579	71,880	57,382	105	813
8 Farm irrigation water users.....water users 1959...	43,001	51	...	51	35,979	29,272	20,829	98	246
9 Residential water users.....water users 1959...	47,519	...	...	...	45,168	42,182	36,489	7	563
10 Other water users.....water users 1959...	432	...	...	...	432	426	64	...	4
LAND IRRIGATED BY SOURCE OF WATER, 1959									
11 Ground water sources.....acres...	157,999	1,000	1,000	...	141,000	122,000	40,000	2,000	10,000
12 Surface water sources.....acres...	903,684	4,000	...	4,000	646,000	470,000	280,000	8,000	1,000
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959									
13 Total entering conveyance systems in basin.....organizations.....	978	7	...	7	809	671	416	8	22
14 acre-feet.....	3,648,089	5,028	...	5,028	2,621,153	2,041,426	1,327,163	13,090	21,349
15 From another drainage basin.....organizations.....	11	...	...	...	14	8	7	1	1
16 acre-feet.....	91,394	...	...	...	197,732	131,192	115,862	2,565	669
17 From drainage basin number.....D. B. No. ....	...	...	...	...	...	...	...	IV-E-2	IV-E-5b
18 From natural sources within basin.....organizations.....	863	7	...	7	702	605	359	7	21
19 acre-feet.....	3,556,695	5,028	...	5,028	2,423,421	1,910,234	1,211,301	10,525	20,680
20 Surface water.....organizations.....	754	4	...	4	605	526	326	6	14
21 acre-feet.....	3,401,225	4,172	...	4,172	2,293,755	1,805,542	1,162,637	8,740	10,414
22 Ground water.....organizations.....	152	3	...	3	133	110	45	1	8
23 acre-feet.....	155,470	856	...	856	129,666	104,692	48,664	1,785	10,266
24 From other organizations in the basin.....organizations receiving.....	179	...	...	...	165	126	109	...	...
25 acre-feet.....	557,722	...	...	...	457,542	364,126	293,379	...	...
26 Total leaving conveyance systems.....organizations.....	978	7	...	7	809	671	416	8	22
27 acre-feet.....	3,648,089	5,028	...	5,028	2,621,153	2,041,426	1,327,163	13,090	21,349
28 Conveyance loss in basin.....organizations.....	808	7	...	7	662	547	326	5	20
29 acre-feet.....	466,721	1,362	...	1,362	362,314	276,694	138,593	897	3,332
30 Conveyed to another drainage basin.....organizations.....	4	...	...	...	4	1	...	...	...
31 acre-feet.....	13,355	...	...	...	8,835	2,920	...	...	...
32 To drainage basin number.....D. B. No. ....	...	...	...	...	...	...	...	...	...
33 Delivered for use in the basin.....organizations.....	970	7	...	7	803	666	413	8	22
34 acre-feet.....	3,168,013	3,666	...	3,666	2,250,004	1,761,812	1,188,570	12,193	18,017
35 To farm irrigation water users.....organizations.....	965	7	...	7	798	662	409	8	22
36 acre-feet.....	2,956,192	3,666	...	3,666	2,056,947	1,591,551	1,038,289	11,827	16,743
37 To residential water users.....organizations.....	245	...	...	...	212	187	141	1	6
38 acre-feet.....	132,501	...	...	...	113,737	96,141	79,485	366	1,034
39 For other use.....organizations.....	30	...	...	...	30	25	19	...	1
40 acre-feet.....	79,320	...	...	...	79,320	74,120	70,796	...	240
41 Delivered to other irrigation organizations.....organizations delivering.....	52	...	...	...	44	39	29	...	...
42 acre-feet.....	557,722	...	...	...	457,542	364,126	293,379	...	...
43 Average delivery of irrigation water per acre irrigated as reported by organizations.....acre-feet...	2.7	0.9	...	0.9	2.6	2.6	3.0	1.7	1.7
NEW CAPITAL INVESTMENT, 1950-1959									
44 Expenditures for additional new works and equipment for irrigation and drainage, Jan. 1, 1950-Dec. 31, 1959.....organizations.....	564	4	...	4	432	356	203	6	8
45 dollars.....	38,346,259	2,300	...	2,300	36,175,666	35,736,541	33,356,503	258,709	112,178

¹³590 acre-feet from D. B. No. III-E-1a, 8,909 acre-feet from D. B. No. III-D-3b.

²⁶700 acre-feet from D. B. No. III-D-3d, 22,181 acre-feet from D. B. No. III-D-3e.

²⁹900 acre-feet from D. B. No. III-D-3e, 14,015 acre-feet from D. B. No. III-D-3d.

¹⁰240 acre-feet from D. B. No. III-D-4b. ²¹⁷278 acre-feet from D. B. No. III-D-4d.

¹⁰²6,700 acre-feet to D. B. No. III-D-3e, 14,015 acre-feet to D. B. No. III-D-3e.

¹²⁴595 acre-feet to D. B. No. III-D-3b. ¹³¹⁰240 acre-feet to D. B. No. III-D-4a.

²⁴595 acre-feet from D. B. No. III-D-3f, 2,700 acre-feet from D. B. No. III-E-1b.

⁴⁰200 acre-feet from D. B. No. III-D-3e, 4,545 acre-feet from D. B. No. III-D-3g.

²⁴757 acre-feet from D. B. No. III-D-3b, 40,065 acre-feet from D. B. No. IV-E-5a.

²⁴757 acre-feet to D. B. No. III-D-3f, 8,909 acre-feet to D. B. No. III-D-3a.

¹¹²²181 acre-feet to D. B. No. III-D-3e, 40,200 acre-feet to D. B. No. III-D-3d.

BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950

Bonneville Basin excluding Bear River (III-D)—Continued														
Great Salt Lake Basin excluding Bear River—Continued										Sevier River				
Southeast Great Salt Lake Basin										Sevier River direct				
Total	Great Salt Lake direct	Weber River above Gateway	Jordan River						Total	Total	Below Gunnison	Gunnison to Sevier	Above Sevier	
			Total	Jordan River direct	West Utah Lake area	Northeast Utah Lake area	Provo River above Vivian	S. E. Utah Lake area						
	(3a)	(3b)		(3c)	(3d)	(3e)	(3f)	(3g)			(4a)	(4b)	(4c)	
299,000	89,000	40,000	170,000	48,000	25,000	33,000	22,000	42,000	204,000	151,000	73,000	53,000	25,000	1
327,667	94,929	38,351	194,387	54,685	22,722	33,679	27,747	55,554	242,813	173,814	77,877	69,551	24,386	2
390	139	93	163	58	16	37	30	29	186	105	40	48	20	3
418	140	109	172	64	16	35	33	29	193	112	41	51	23	4
353,505	94,785	30,618	228,102	68,409	24,124	44,384	26,766	64,419	308,895	218,164	115,822	78,760	23,582	5
330,143	84,913	29,972	215,258	65,385	21,814	41,309	26,126	60,624	232,461	166,642	83,985	62,072	20,585	6
56,464	18,587	1,532	36,345	18,293	1,003	8,639	1,627	6,783	11,957	8,166	2,603	4,350	1,013	7
20,485	5,768	1,024	13,693	3,852	855	4,733	1,194	4,960	7,324	4,960	2,200	2,312	448	8
35,919	12,801	472	22,646	14,437	148	3,904	433	3,724	4,271	2,846	402	2,104	340	9
60	18	36	6	4	...	2	...	...	362	360	1	134	225	10
28,000	11,000	1,000	16,000	3,000	5,000	5,000	2,000	1,000	34,000	24,000	23,000	1,000	...	11
271,000	78,000	39,000	154,000	45,000	20,000	28,000	20,000	41,000	170,000	127,000	50,000	52,000	25,000	12
387	138	93	161	57	16	37	29	29	184	104	39	48	20	13
1,292,724	312,739	174,250	843,996	382,367	95,241	221,156	128,016	134,757	617,145	496,619	195,383	204,089	107,387	14
5	2	3	5	2	4	2	1	1	3	3	3	3	...	15
112,628	12,499	7,295	131,095	48,881	44,745	23,915	64,822	66,273	...	17,278	10,240	17,278	...	16
...	(1)	(2)	...	(3)	(4)	(5)	(6)	IV-E-5e	...	...	(7)	(8)	...	17
331	98	89	146	53	14	26	26	178	96	36	40	20	18	20
1,180,096	300,240	166,955	712,901	333,486	50,496	197,241	63,194	68,484	617,145	479,341	185,143	186,811	107,387	19
306	90	88	117	47	9	23	26	151	82	22	40	20	20	20
1,143,483	293,936	163,969	685,578	329,028	43,138	188,453	57,493	67,466	584,119	459,156	169,232	185,057	104,867	21
36	13	3	21	6	5	7	1	2	43	25	19	4	2	22
36,613	6,304	2,986	27,323	4,458	7,358	8,788	5,701	1,018	33,026	20,185	15,911	1,754	2,520	23
109	68	5	36	14	2	16	2	2	15	7	...	7	...	24
293,379	113,153	1,188	179,038	54,993	40,200	77,584	4,979	1,282	63,147	60,361	...	60,361	...	25
387	138	93	161	57	16	37	29	29	184	104	39	48	20	26
1,292,724	312,739	174,250	843,996	382,367	95,241	221,156	128,016	134,757	617,145	496,619	195,383	204,089	107,387	27
301	105	82	117	48	14	27	15	17	169	99	37	47	18	28
134,364	29,779	20,585	84,000	40,101	8,880	19,528	6,583	8,908	130,650	112,550	48,840	46,483	17,227	29
...	...	3	2	1	2	2	2	1	1	...	...	3	...	30
...	...	33,666	4,595	9,900	40,715	62,381	4,595	4,545	2,920	...	...	10,240	...	31
...	...	(9)	...	III-D-3e	(10)	(11)	(12)	III-D-3d	...	...	...	(13)	...	32
383	136	92	158	56	15	37	27	28	184	104	39	48	20	33
1,158,360	282,960	119,999	755,401	332,366	45,646	139,247	116,838	121,304	483,575	384,069	146,543	147,366	90,160	34
379	134	92	156	55	15	35	27	28	184	104	39	48	20	35
1,009,719	241,198	107,033	661,488	265,787	44,780	122,254	114,015	114,652	469,346	373,206	143,163	143,188	86,855	36
134	47	22	65	46	2	9	3	6	41	7	15	7	15	37
78,085	19,812	3,802	54,471	39,191	866	4,939	2,823	6,652	11,635	8,272	3,352	3,705	1,215	38
18	14	2	3	2	...	...	...	...	5	4	1	2	1	39
70,556	21,950	9,164	39,442	27,388	...	12,054	...	...	2,594	2,591	28	473	2,090	40
29	7	3	21	7	1	9	2	3	8	5	...	5	...	41
293,379	113,153	1,188	179,038	54,993	40,200	77,584	4,979	1,282	63,147	60,361	...	60,361	...	42
3.1	0.3	3.6	3.1	4.1	2.1	3.0	4.4	1.9	2.1	2.2	1.7	2.3	4.2	43
189	64	36	91	18	11	26	21	19	123	82	31	37	15	44
32,985,616	10,584,763	11,843,853	10,557,020	332,800	118,722	5,242,433	4,762,196	100,869	1,666,860	1,251,120	1,033,100	129,036	88,984	45

IRRIGATION OF AGRICULTURAL LANDS

State Table 1.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS,

	Item (For definitions and explanations, see text)	Bonneville Basin excluding Bear River (III-D)—Continued							Bear River (III-E)		
		Sevier River—Continued		Snake Valley	Escalante River and Shoal Creek	Beaver River	Little Salt Lake	Coal Creek	Total	Bear River direct	
		San Pitch River	East Fork							Total	Below Alexander, Idaho
1	Total area irrigated in Census year.....1959.....	47,000	6,000	10,000	18,000	22,000	6,000	12,000	195,000	154,000	101,000
2	.....1949.....	58,675	12,324	10,079	14,322	24,414	8,733	13,421	186,662	148,681	94,005
3	Irrigation organizations.....organizations 1959.....	65	19	6	5	33	7	19	140	103	78
4	.....1949.....	61	22	7	8	42	10	22	140	103	78
5	Service area, 1959: Farm area reported served by organizations.....acres 1959.....	81,131	9,600	7,287	6,520	20,066	10,058	7,815	206,748	168,661	111,029
6	Farm area reported irrigated by organizations.....acres 1959.....	58,589	7,230	6,447	1,910	10,230	3,071	4,841	188,996	153,429	99,161
7	Water users served, total.....water users 1959.....	3,496	295	31	86	591	633	1,200	9,699	5,021	4,508
8	Farm irrigation water users.....water users 1959.....	2,170	194	31	86	558	232	212	6,707	3,966	3,534
9	Residential water users.....water users 1959.....	1,324	101	...	...	33	401	988	2,986	1,054	973
10	Other water users.....water users 1959.....	2	...	...	...	...	...	...	6	1	1
	LAND IRRIGATED BY SOURCE OF WATER, 1959										
11	Ground water sources.....acres.....	10,000	...	4,000	17,000	12,000	6,000	9,000	19,000	12,000	9,000
12	Surface water sources.....acres.....	37,000	6,000	6,000	1,000	10,000	...	3,000	176,000	142,000	92,000
	WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959										
13	Total entering conveyance systems in basin.....organizations.....	65	18	6	5	33	7	19	140	103	78
14	.....acre-feet.....	104,795	33,009	25,345	7,196	34,112	12,594	17,871	586,017	462,867	341,873
15	From another drainage basin.....organizations.....	...	...	1	...	...	...	...	8	10	9
16	.....acre-feet.....	...	...	15,330	...	...	...	...	72,830	84,220	77,860
17	From drainage basin number.....D. B. No.....	...	...	IV-E-5c	...	...	...	...	...	...	(1)
18	From natural sources within basin.....organizations.....	65	17	5	5	32	7	19	97	60	35
19	.....acre-feet.....	104,795	33,009	10,015	7,196	34,112	12,594	17,871	513,187	378,647	264,013
20	Surface water.....organizations.....	52	17	3	2	31	6	7	79	52	27
21	.....acre-feet.....	92,319	32,644	4,465	1,646	31,961	9,309	11,405	488,213	368,107	254,673
22	Ground water.....organizations.....	17	1	3	3	1	12	23	11	10	10
23	.....acre-feet.....	12,476	365	5,550	5,550	2,151	3,285	6,466	24,974	10,540	9,340
24	From other organizations in the basin.....organizations receiving.....	7	1	...	...	2	...	...	39	37	37
25	.....acre-feet.....	1,706	1,080	...	...	7,600	...	...	93,416	83,916	83,916
26	Total leaving conveyance systems.....organizations.....	65	18	6	5	33	7	19	140	103	78
27	.....acre-feet.....	104,795	33,009	25,345	7,196	34,112	12,594	17,871	586,017	462,867	341,873
28	Conveyance loss in basin.....organizations.....	57	16	5	4	26	6	11	116	85	62
29	.....acre-feet.....	14,446	3,654	1,468	581	3,375	1,007	1,020	85,620	62,807	55,565
30	Conveyed to another drainage basin.....organizations.....	3	1	...	...	...	...	...	5	5	2
31	.....acre-feet.....	17,278	2,920	...	...	...	...	...	12,205	12,205	3,625
32	To drainage basin number.....D. B. No.....	(2)	IV-D-1a	...	...	...	...	...	...	...	(5)
33	Delivered for use in the basin.....organizations.....	65	18	6	5	32	7	19	138	102	78
34	.....acre-feet.....	73,071	26,435	23,877	6,615	30,737	11,587	16,851	488,192	387,855	282,683
35	To farm irrigation water users.....organizations.....	65	18	6	5	32	7	19	138	102	78
36	.....acre-feet.....	70,097	26,043	23,877	6,615	30,702	9,407	13,315	465,396	381,754	276,905
37	To residential water users.....organizations.....	12	3	...	...	2	1	25	11	11	8
38	.....acre-feet.....	2,971	392	...	...	35	1,450	3,536	17,596	3,541	3,218
39	For other use.....organizations.....	1	...	...	...	...	1	...	5	1	1
40	.....acre-feet.....	3	...	...	...	...	730	...	5,200	2,560	2,560
41	Delivered to other irrigation organizations.....organizations delivering.....	2	1	...	...	2	...	...	5	4	4
42	.....acre-feet.....	1,706	1,080	...	...	7,600	...	...	93,416	83,916	83,916
43	Average delivery of irrigation water per acre irrigated as reported by organizations.....acre-feet.....	1.2	3.6	3.7	3.5	3.0	3.1	2.7	2.5	2.5	2.8
	NEW CAPITAL INVESTMENT, 1950-1959										
44	Expenditures for additional new works and equipment for irrigation and drainage, Jan. 1, 1950-Dec. 31, 1959.....organizations.....	36	7	3	3	10	2	12	76	50	44
45	.....dollars.....	278,033	137,707	101,000	328,185	133,100	21,418	129,475	439,125	298,721	212,871

D Data not shown to avoid disclosure of information for individual organizations. ¹63,690 acre-feet from D. B. No. IV-E-3, 1,980 acre-feet from D. B. No. IV-E-3, 12,190 acre-feet from D. B. No. III-E-3. ²6,180 acre-feet from D. B. No. III-E-1c, 6,360 acre-feet from D. B. No. III-E-1c, 920 acre-feet from D. B. No. III-E-4e, 750 acre-feet from D. B. No. IV-D-2a. ³47,570 acre-feet from D. B. No. IV-E-5a, 5,166 acre-feet from D. B. No. IV-E-7. ⁴17,278 acre-feet to D. B. No. III-D-4b. ⁵3,590 acre-feet to D. B. No. III-D-3a, 35 acre-feet to D. B. No. IV-E-3. ⁶2,700 acre-feet to D. B. No. III-D-2b, 3,000 acre-feet to D. B. No. IV-E-4, 6,180 acre-feet to D. B. No. III-E-1b, 2,880 acre-feet to D. B. No. III-D-3c. ⁷12,190 acre-feet to D. B. No. III-E-1a.

BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Continued

Bear River (III-E)—Continued				Colorado River below Lees Ferry, Arizona (IV-B)			Colorado River above Lees Ferry, Arizona excluding Green River (IV-D)				Green River (IV-E)		
Bear River direct—Continued			Gulf of California										
Alexander to Woodruff, Utah and above Woodruff (1b, 1c)	Upper Malad River	Little Bear River		Total	Colorado River direct	Virgin River	Total	Colorado River direct	San Juan River direct and Dolores River	Fremont River	Total	Green River direct and Henrys Fork	San Rafael River
	(2)	(3)		(1b)	(3a)		(1a)	(2a, 4a)	(3)		(1, 9)	(2)	
53,000 54,676	1,000 797	40,000 37,184	270,000 304,084	21,000 19,583	3,000 1,531	18,000 18,052	32,000 47,145	7,000 17,242	4,000 6,566	21,000 23,337	217,000 237,356	20,000 20,241	25,000 36,009
26 25	2 2	38 38	163 184	44 54	3 3	41 51	44 46	21 22	5 8	19 17	79 84	11 12	4 5
57,632	(D)	(D)	350,069	22,240	1,980	20,260	47,700	16,180	3,646	27,874	280,129	32,105	31,950
54,268	(D)	(D)	310,133	15,784	1,165	14,619	32,976	10,327	2,082	20,567	261,373	30,745	25,265
513	(D)	(D)	9,322	1,740	268	1,472	1,418	655	58	705	6,164	338	1,091
432	(D)	(D)	6,971	1,104	88	1,016	970	382	58	530	4,897	221	679
81	...	(D)	2,351	636	180	456	448	273	...	175	1,267	117	412
...	(D)	(D)	...	...	...	...	...	...	...	...	...	...	...
3,000	1,000	6,000	16,000	7,000	...	7,000	5,000	...	1,000	4,000	4,000	1,000	...
50,000	...	34,000	254,000	14,000	3,000	11,000	27,000	7,000	3,000	17,000	213,000	19,000	25,000
26 127,174	2 (D)	38 (D)	163 1,179,952	44 85,721	3 5,014	41 80,707	44 103,344	21 30,849	5 5,180	19 68,065	78 942,101	11 148,771	4 89,144
3 12,540	1 (D)	...	5 51,706	...	...	...	1 2,920	2 3,670	...	...	...	2 12,736	...
(2)	(D)	...	...	...	...	...	...	(3)	...	...	...	(4)	...
25 114,634	1 (D)	37 (D)	156 1,128,246	41 85,721	3 5,014	38 80,707	43 100,424	19 27,179	5 5,180	19 68,065	72 942,101	9 136,035	18 89,144
25 113,434	1 (D)	27 (D)	147 1,103,298	34 72,936	1 1,029	33 71,907	41 90,146	18 26,690	5 5,180	19 58,776	72 940,216	9 136,035	20 89,144
1 1,200	...	12 (D)	16 24,948	10 12,785	2 3,985	8 8,800	5 10,278	2 489	...	3 9,789	1 1,885	...	22 ...
...	...	2 (D)	14 100,180	4 8,895	...	4 8,895	1 206	...	...	1 206	9 91,079	...	24 ...
26 127,174	2 (D)	38 (D)	163 1,179,952	44 85,721	3 5,014	41 80,707	44 103,344	21 30,849	5 5,180	19 68,065	78 942,101	11 148,771	4 89,144
24 7,242	2 (D)	30 (D)	139 103,045	33 3,969	2 283	31 3,686	41 19,107	18 4,001	5 883	19 14,223	68 79,969	10 10,582	28 11,541
3 14,760	...	3 (D)	9 162,564	...	...	...	...	...	1 750	...	5 113,778	2 7,440	30 32,599
(7)	...	(4)	...	...	...	...	...	...	IV-D-1a	...	...	...	IV-E-3
24 105,172	2 (D)	37 (D)	160 914,343	44 81,752	3 4,731	41 77,021	44 84,237	21 26,848	5 3,547	19 53,842	75 748,354	10 130,749	33 45,004
24 104,849	2 (D)	37 (D)	160 895,579	44 75,286	3 3,365	41 71,921	44 81,173	21 25,272	5 3,547	19 52,354	74 739,120	10 126,837	35 43,237
3 323	...	15 (D)	34 18,764	12 6,466	2 1,366	10 5,100	8 3,064	4 1,576	...	4 1,488	15 9,234	2 3,912	37 1,767
...	1 (D)	3 (D)	...	...	...	...	...	...	...	...	...	...	39 40
...	...	1 (D)	11 100,180	2 8,895	...	2 8,895	1 206	...	...	1 206	6 91,079	...	41 ...
1.9	(D)	(D)	2.9	4.8	2.9	4.9	2.5	2.4	1.7	2.5	2.8	4.1	1.7
6 85,850	1 (D)	27 (D)	128 2,168,293	33 455,794	2 15,200	31 440,594	31 571,386	14 276,194	4 76,970	14 218,222	68 1,141,113	10 209,390	3 111,546

State Table 1.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY DRAINAGE BASINS:
CENSUSES OF 1959 AND 1950—Continued

Item (For definitions and explanations, see text)	Green River (IV-E)—Continued							
	Duchesne River						Ashley Creek and Brunh Creek	Blacks Fork
	Price River	White River	Total	Duchesne River direct	Uintah River	Lake Fork		
	(3)	(4)		(5a)	(5b)	(5c)	(6, 7)	(10a)
1 Total acres irrigated in Census year.....1959...	15,000	...	139,000	38,000	68,000	33,000	18,000	...
2, 1949.....	16,973	...	137,742	32,627	73,129	31,986	26,391	...
3 Irrigation organizations.....organizations 1959...	12	...	42	30	15	8	14	...
4, 1949.....	12	...	42	28	16	8	16	...
5 Service area, 1959: Farm area reported served by organizations.....acres 1959...	32,761	...	158,137	41,468	86,986	29,683	25,176	...
6 Farm area reported irrigated by organizations.....acres 1959...	31,203	...	154,684	39,949	86,238	28,497	19,476	...
7 Water users served, total.....water users 1959...	1,523	...	1,928	506	1,135	287	1,284	...
8 Farm irrigation water users.....water users 1959...	1,066	...	1,820	473	1,063	284	1,111	...
9 Residential water users.....water users 1959...	457	...	108	33	72	3	173	...
10 Other water users.....water users 1959...	...	...	...	...	...	...	...	...
11 LAND IRRIGATED BY SOURCE OF WATER, 1959								
Ground water sources.....acres...	...	...	2,000	...	1,000	1,000	1,000	...
12 Surface water sources.....acres...	15,000	...	137,000	38,000	67,000	32,000	17,000	...
13 WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959								
Total entering conveyance systems in basin.....organizations...	12	...	42	30	15	8	14	...
14, acre-feet...	81,505	...	599,959	294,322	282,929	125,663	71,508	...
15 From another drainage basin.....organizations...	1	...	...	7	3	...	1	...
16, acre-feet...	32,599	...	...	75,310	27,645	...	3,451	...
17 From drainage basin number.....D. B. No....	(1)	...	...	(2)	(3)	...	IV-E-7	...
18 From natural sources within basin.....organizations...	10	...	39	22	13	8	13	...
19, acre-feet...	48,906	...	599,959	219,012	255,284	125,663	68,057	...
20 Surface water.....organizations...	10	...	38	21	13	8	13	...
21, acre-feet...	48,906	...	598,074	217,127	255,284	125,663	68,057	...
22 Ground water.....organizations...	...	...	1	1	...	...	...	...
23, acre-feet...	...	...	1,885	1,885	...	...	...	...
24 From other organizations in the basin.....organizations receiving...	1	...	7	4	3	1	1	...
25, acre-feet...	8,732	...	80,603	69,475	10,216	912	1,744	...
26 Total leaving conveyance systems.....organizations...	12	...	42	30	15	8	14	...
27, acre-feet...	81,505	...	599,959	294,322	282,929	125,663	71,508	...
28 Conveyance loss in basin.....organizations...	12	...	31	22	10	3	14	...
29, acre-feet...	20,538	...	26,513	16,155	7,970	2,388	10,795	...
30 Conveyed to another drainage basin.....organizations...	...	...	4	4	3	7	2	...
31, acre-feet...	...	...	113,908	113,908	46,263	56,692	8,617	...
32 To drainage basin number.....D. B. No....	...	...	...	(4)	(5)	(6)	(7)	...
33 Delivered for use in the basin.....organizations...	12	...	38	25	14	6	12	...
34, acre-feet...	60,967	...	459,538	164,259	228,696	66,583	52,096	...
35 To farm irrigation water users.....organizations...	12	...	38	25	14	6	12	...
36, acre-feet...	58,067	...	459,227	164,168	228,501	66,558	51,752	...
37 To residential water users.....organizations...	4	...	4	2	3	1	2	...
38, acre-feet...	2,900	...	311	91	195	25	344	...
39 For other use.....organizations...	...	...	...	...	...	...	...	...
40, acre-feet...	...	...	...	...	...	...	...	...
41 Delivered to other irrigation organizations.....organizations delivering...	1	...	6	3	2	1	1	...
42, acre-feet...	8,732	...	80,603	69,475	10,216	912	1,744	...
43 Average delivery of irrigation water per acre irrigated as reported by organizations.....acre-feet...	1.9	...	3.0	4.1	2.6	2.3	2.7	...
44 NEW CAPITAL INVESTMENT, 1950-1959								
Expenditures for additional new works and equipment for irrigation and drainages, Jan. 1, 1950-Dec. 31, 1959.....organizations...	10	...	35	24	12	5	14	...
45, dollars...	59,545	...	633,032	334,695	202,097	96,240	127,600	...

¹32,599 acre-feet from D. B. No. IV-E-2. ²29,047 acre-feet from D. B. No. IV-E-5c, 46,263 acre-feet from D. B. No. IV-E-5b. ³27,645 acre-feet from D. B. No. IV-E-5a. ⁴40,065 acre-feet to D. B. No. III-D-3f, 7,570 acre-feet to D. B. No. IV-E-1, 66,273 acre-feet to D. B. No. III-D-3g. ⁵46,263 acre-feet to D. B. No. IV-E-5a. ⁶27,645 acre-feet to D. B. No. IV-E-5b, 29,047 acre-feet to D. B. No. IV-E-5a. ⁷451 acre-feet to D. B. No. IV-E-6, 5,166 acre-feet to D. B. No. IV-E-1.

State Table 2.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950

	Item (For definitions and explanations, see text)	Utah, total	Great Salt Lake	Sevier River,	Bear River	Colorado River	Green River
			Basin excluding Bear River	Snake Valley, Escalante River and Shoal Creek, Sevier River, Little Salt Lake, and Coal Creek		above and below Leas Ferry excluding Cila, Green, and Gunnison Rivers	
			(III-D 1-3)	(III-D 4-9)	(III-E)	(IV-B and IV-D)	(IV-E)
1	Irrigation organizations, total	984	420	256	140	88	79
2	number.....organizations 1959...	1,058	450	282	140	100	84
3	Area irrigated as reported by						
4	organizations.....acres 1959...	1,109,620	347,251	258,960	188,996	48,760	261,373
	1949...	1,083,250	343,797	291,260	173,962	50,944	218,942
5	Farm water users served directly.....water users 1959...	43,001	20,829	8,443	6,707	2,074	4,897
6	Total water conveyed.....acre-feet 1959...	4,205,811	1,620,542	785,010	679,433	198,166	1,032,180
TYPE OF ORGANIZATION							
Mutual:							
7	Unincorporated.....organizations 1959...	316	113	95	47	36	21
8	1949...	406	167	137	51	37	29
9	Farm area irrigated directly.....acres 1959...	77,985	19,541	22,788	22,972	5,738	6,376
10	Farm water users served						
11	directly.....water users 1959...	2,442	964	619	517	220	103
	Total water conveyed.....acre-feet 1959...	262,193	74,982	77,876	60,962	21,636	25,161
12	Incorporated.....organizations 1959...	651	294	160	91	51	57
13	1949...	634	275	163	88	58	52
14	Farm area irrigated directly.....acres 1959...	912,058	310,380	231,972			192,692
15	Farm water users served						
16	directly.....water users 1959...	36,345	17,383	7,759	(D)	(D)	4,076
	Total water conveyed.....acre-feet 1959...	3,296,892	1,407,060	702,514	(D)	(D)	739,378
17	District.....organizations 1959...	8	6	1	1	...	...
18	1949...	5	3	...	...	...	2
19	Farm area irrigated directly.....acres 1959...	20,167	12,467	(D)	(D)	...	...
20	Farm water users served						
21	directly.....water users 1959...	1,984	1,759	(D)	(D)	...	...
	Total water conveyed.....acre-feet 1959...	75,753	63,233	(D)	(D)	...	...
22	U. S. Bureau of Reclamation; projects and stor-						
	age systems operated by bureau.....organizations 1959...	1	1	...	...	...	...
23	1949...	1	1	...	...	...	...
24	Farm area irrigated directly.....acres 1959...	1,030	1,030	...	...	...	...
25	Farm water users served						
26	directly.....water users 1959...	47	47	...	...	...	...
	Total water conveyed.....acre-feet 1959...	29,414	29,414	...	...	...	...
27	U. S. Bureau of Reclamation; operated						
	by water users.....organizations 1959...	13	8	2	2	...	3
28	1949...	10	NA	NA	NA	...	NA
29	Farm area irrigated directly.....acres 1959...	36,279	25,167	(D)	(D)	...	...
30	Farm water users served						
31	directly.....water users 1959...	1,603	1,204	(D)	(D)	...	...
	Total water conveyed.....acre-feet 1959...	275,113	228,246	(D)	(D)	...	125,896
32	U. S. Bureau of Indian Affairs.....organizations 1959...	2	1	...	...	...	1
33	1949...	3	3	...	...	...	1
34	Farm area irrigated directly.....acres 1959...	62,528	223	...	...	...	62,305
35	Farm water users served						
36	directly.....water users 1959...	726	8	...	...	...	718
	Total water conveyed.....acre-feet 1959...	269,110	669	...	...	...	268,441
37	Commercial.....organizations 1959...	1	1	...	1	...	...
38	1949...	2	1	...	1	...	...
39	Farm area irrigated directly.....acres 1959...	(D)	(D)	...	(D)	...	...
40	Farm water users served						
41	directly.....water users 1959...	(D)	(D)	...	(D)	...	...
	Total water conveyed.....acre-feet 1959...	(D)	(D)	...	(D)	...	...
42	State.....organizations 1959...	...	...	...	...	...	...
43	1949...	...	...	...	...	...	...
44	Farm area irrigated directly.....acres 1959...	...	...	...	...	...	...
45	Farm water users served						
46	directly.....water users 1959...	...	...	...	...	...	...
	Total water conveyed.....acre-feet 1959...	...	...	...	...	...	...
47	City.....organizations 1959...	5	4	...	...	...	1
48	1949...	7	3	2	...	...	2
49	Farm area irrigated directly.....acres 1959...	(D)	(D)	...	...	...	(D)
50	Farm water users served						
51	directly.....water users 1959...	(D)	(D)	...	...	...	(D)
	Total water conveyed.....acre-feet 1959...	(D)	(D)	...	...	...	(D)

D Data not shown to avoid disclosure of information for individual organizations.
NA Not available.

State Table 2.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Continued

Item (For definitions and explanations, see text)	Utah, total	Great Salt Lake	Sevier River, Snake Valley, Escalante River and Shoal Creek, Beaver River, Little Salt Lake, and Coal Creek	Bear River	Colorado River above and below Lee's Ferry excluding Gila, Green, and Gunnison Rivers	Green River
		Basin excluding Bear River				
		(III-D 1-3)	(III-D 4-9)	(III-E)	(IV-B and IV-D)	(IV-E)
TYPE OF SERVICE, 1959						
1 All water directly from surface and						
2 ground water sources.....organizations...	796	307	237	98	83	69
3 Total water conveyed.....acre-feet...	3,073,998	1,114,777	703,816	576,827	187,015	602,081
4 Water delivered.....acre-feet...	2,640,664	974,401	577,430	494,268	164,347	426,552
5 To farm and residential						
6 users only.....organizations...	757	289	228	93	80	63
7 To farm and residential users and other	1,790,347	618,135	462,899	220,881	116,008	368,758
8 irrigation organizations.....organizations...	33	16	8	4	3	3
9 Water to farm and residential						
10 users.....acre-feet...	424,341	137,431	45,708	179,971	39,238	21,993
11 Water to other irrigation						
12 organizations.....acre-feet...	276,298	102,680	68,723	83,916	9,101	11,878
13 To other irrigation organizations						
14 only.....organizations...	5	2	1	1	...	...
15 acre-feet...	149,678	116,155	100	9,500	...	23,923
16 Part of water from other						
17 organizations.....organizations...	75	55	10	4	2	4
18 Total water conveyed.....acre-feet...	768,366	380,217	12,653	11,830	3,881	359,785
19 From surface and ground water						
20 sources.....acre-feet...	573,031	212,386	10,447	8,130	2,050	340,018
21 From other irrigation						
22 organizations.....acre-feet...	195,335	167,831	2,206	3,700	1,831	19,767
23 Water delivered.....acre-feet...	694,328	318,873	10,591	9,006	3,473	352,385
24 To farm and residential						
25 users only.....organizations...	65	46	10	4	2	3
26 acre-feet...	268,719	161,705	10,591	9,006	3,473	83,944
27 To farm and residential users and other						
28 irrigation organizations.....organizations...	9	8	...	...	...	...
29 Water to farm and residential						
30 users.....acre-feet...	302,047	88,884	...	...	...	213,163
31 Water to other irrigation						
32 organizations.....acre-feet...	106,374	51,096	...	...	...	55,278
33 To other irrigation organizations						
34 only.....organizations...	1	1	...	...	...	...
35 acre-feet...	17,188	17,188	...	...	...	...
36 All of water from other						
37 organizations.....organizations...	107	54	7	38	3	5
38 Total water conveyed.....acre-feet...	363,447	125,548	68,541	90,776	7,270	71,312
39 Water delivered.....acre-feet...	311,423	117,879	52,644	73,134	7,270	60,496
40 To farm and residential						
41 users only.....organizations...	103	51	6	38	3	5
42 acre-feet...	300,033	109,108	50,025	73,134	7,270	60,496
43 To farm and residential users and other						
44 irrigation organizations.....organizations...	2	1	1	...	...	...
45 Water to farm residential						
46 users.....acre-feet...	3,206	2,511	695	...	...	...
47 Water to other irrigation						
48 organizations.....acre-feet...	2,632	708	1,924	...	...	...
49 To other irrigation organizations						
50 only.....organizations...	2	2	...	...	...	...
51 acre-feet...	5,552	5,552	...	...	...	...
52 No water conveyed.....organizations...	6	4	2	...	...	...
WATER FROM OTHER SOURCES						
53 Organizations reporting no water from						
54 other sources used on land served						
55 by the organization.....organizations...	843	362	197	133	86	63
56 acres served...	1,033,131	364,686	265,823	213,497	68,410	197,361
57 acres irrigated...	883,664	338,635	199,666	195,992	48,260	138,487
58 Water delivered to farms.....acre-feet...	2,426,877	1,092,765	451,067	476,252	154,994	408,124
59 acre-feet per acre...	2.7	3.2	2.3	2.4	3.2	2.9
60 Organizations reporting water from other						
61 sources used on land served by the						
62 organization.....organizations...	123	46	56	6	2	12
63 acres served...	294,360	50,074	96,158	15,846	1,590	130,412
64 acres irrigated...	231,055	45,991	60,144	15,024	560	129,196
65 Water delivered to farms.....acre-feet...	555,982	87,264	104,555	20,420	1,625	341,880
66 acre-feet per acre...	2.2	1.9	1.7	1.4	2.9	2.6

State Table 2.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Continued

Item (For definitions and explanations, see text)	Utah, total	Great Salt Lake Basin excluding Bear River	Sevier River, Snake Valley, Escalante River and Shoal Creek, Beaver River, Little Salt Lake, and Coal Creek	Bear River	Colorado River above and below Lees Ferry excluding Gila, Green, and Gunnison Rivers	Green River
	(III-D 1-3)	(III-D 4-9)	(III-E)	(IV-B and IV-D)	(IV-E)	
WATER DELIVERED PER ACRE						
Organizations reporting no water from other sources used on same land:						
0.1 to 0.9 acre-feet per acre.....organizations...	53	13	22	10	5	2
1.0 to 1.9 acre-feet per acre.....organizations...	68,354	10,391	22,167	22,626	6,635	3,935
2.0 to 2.9 acre-feet per acre.....organizations...	242,583	40,350	81,829	36,917	4,437	17
3.0 to 3.9 acre-feet per acre.....organizations...	252,966	108,434	44,513	72,828	9,077	20
4.0 to 4.9 acre-feet per acre.....organizations...	188	78	42	36	24	14
5.0 to 5.9 acre-feet per acre.....organizations...	130,228	52,841	32,185	26,581	19,001	25,538
6.0 to 6.9 acre-feet per acre.....organizations...	101	54	19	8	15	8
7.0 to 7.9 acre-feet per acre.....organizations...	103,395	82,456	11,604	35,148	3,966	3,653
8.0 to 8.9 acre-feet per acre.....organizations...	44	27	4	3	775	5,298
9.0 to 9.9 acre-feet per acre.....organizations...	22,877	13,757	2,117	1	3	9
10.0 or more acre-feet per acre.....organizations...	42	25	2	1	398	25,846
11.0 to 11.9 acre-feet per acre.....organizations...	42,565	16,479	1,630	212	2	12
12.0 to 12.9 acre-feet per acre.....organizations...	16	6	3	2	1,206	1,232
13.0 to 13.9 acre-feet per acre.....organizations...	4,495	837	430	790	8	...
14.0 to 14.9 acre-feet per acre.....organizations...	13	8	3	...	2,765	...
15.0 to 15.9 acre-feet per acre.....organizations...	14,947	8,991	3,191	...	...	...
16.0 to 16.9 acre-feet per acre.....organizations...	5	5	...	...	...	...
17.0 to 17.9 acre-feet per acre.....organizations...	1,294	1,294	...	...	...	...
SIZE OF ORGANIZATION						
Size of organization (number of farm irrigation water users served directly):						
None.....organizations...	17	11	3	1	...	4
1 to 3.....organizations...	334	55	40	16	...	10
4 to 9.....organizations...	330	130	101	25	40	26
10 to 29.....organizations...	264	110	77	27	26	21
30 to 99.....organizations...	1,593	643	476	168	165	124
100 to 299.....organizations...	286	117	66	23	10	...
300 to 999.....organizations...	4,804	1,936	1,140	1,029	391	327
1,000 to 2,999.....organizations...	178	72	49	24	34	14
3,000 to 9,999.....organizations...	9,373	3,657	2,660	1,210	1,053	792
10,000 to 29,999.....organizations...	74	38	18	10	3	5
30,000 to 99,999.....organizations...	12,558	6,716	2,951	1,552	426	913
100,000 to 299,999.....organizations...	31	17	3	6	...	6
300,000 to 999,999.....organizations...	14,682	9,249	1,149	3,062	...	2,806
1,000 or more.....organizations...	...	...	...	...	...	...
Size of organization (acre-feet of water delivered directly to farms):						
None.....organizations...	17	11	3	1	...	4
1 to 299 acre-feet.....organizations...	204	92	64	19	20	6
300 to 999 acre-feet.....organizations...	29,845	13,564	8,651	3,160	2,907	1,013
1,000 to 2,999 acre-feet.....organizations...	292	131	79	37	28	14
3,000 to 9,999 acre-feet.....organizations...	170,933	75,379	43,162	25,641	16,418	8,417
10,000 to 29,999 acre-feet.....organizations...	266	102	65	46	33	20
30,000 to 99,999 acre-feet.....organizations...	464,367	176,033	117,814	77,235	54,987	39,618
100,000 to 299,999 acre-feet.....organizations...	150	61	34	30	5	21
300,000 to 999,999 acre-feet.....organizations...	794,121	328,680	181,661	139,778	35,701	112,485
1,000,000 to 29,999,999 acre-feet.....organizations...	42	17	10	5	2	9
30,000 to 99,999 acre-feet.....organizations...	676,074	262,865	172,870	82,651	46,606	127,582
100,000 to 299,999 acre-feet.....organizations...	11	5	1	...	...	4
300,000 to 999,999 acre-feet.....organizations...	504,174	194,206	31,464	137,549	...	247,846
1,000,000 to 29,999,999 acre-feet.....organizations...	2	1	...	1	...	1
300,000 to 999,999 acre-feet.....organizations...	350,592	137,549	...	30,658	...	213,043
Size of organization (acre-feet of water conveyed):						
None.....organizations...	6	4	...	...	...	1
1 to 299 acre-feet.....organizations...	159	65	5	14	19	5
300 to 999 acre-feet.....organizations...	24,759	10,051	7,721	2,290	3,526	1,105
1,000 to 2,999 acre-feet.....organizations...	277	126	76	31	26	14
3,000 to 9,999 acre-feet.....organizations...	165,271	73,905	42,662	21,015	16,770	8,977
10,000 to 29,999 acre-feet.....organizations...	280	117	63	49	30	19
30,000 to 99,999 acre-feet.....organizations...	503,339	207,340	113,654	86,825	52,932	39,568
100,000 to 299,999 acre-feet.....organizations...	183	75	42	37	9	22
300,000 to 999,999 acre-feet.....organizations...	976,565	414,965	212,014	194,253	39,600	125,273
1,000,000 to 29,999,999 acre-feet.....organizations...	55	21	14	6	12	12
30,000 to 99,999 acre-feet.....organizations...	891,891	333,973	229,128	92,550	52,331	202,509
100,000 to 299,999 acre-feet.....organizations...	22	11	4	2	1	5
300,000 to 999,999 acre-feet.....organizations...	1,177,470	596,157	179,831	82,096	34,052	374,434
1,000,000 to 29,999,999 acre-feet.....organizations...	2	1	...	...	...	...
300,000 to 999,999 acre-feet.....organizations...	498,441	230,000	...	230,000	...	268,441

State Table 3.—LAND IRRIGATED BY SOURCE OF WATER, BY DRAINAGE BASINS: CENSUS OF 1959

	Item (For definitions and explanations, see text)	Utah, total	Bear River	Green River	Colorado River excluding Gila, Green, and Gunnison Rivers	Great Salt Lake Basin excluding Bear River	Sevier River direct, Snake Valley, Escalante River and Chual Creek, Beaver River, Little Salt Lake, and Coal Creek
			(III-E)	(IV-E)	(IV-B and IV-D)	(III-D 1-3)	(III-D 4-9)
1	Total acres irrigated.....farms reporting...	15,701	2,449	2,245	1,044	6,728	3,189
2	acres...	1,061,683	194,920	216,586	52,976	320,156	272,045
3	Acres irrigated by sprinklers.....farms reporting...	409	194	12	11	167	25
4	acres...	18,421	9,636	544	298	6,131	1,812
5	Sprinklers only.....farms reporting...	118	39	3	2	65	9
6	acres...	6,438	2,682	31	14	2,865	846
	LAND IRRIGATED, BY SOURCE OF WATER TO INDIVIDUAL FARMS, 1959						
7	Ground water sources on farm.....farms reporting...	1,667	140	43	119	678	678
8	acres...	113,417	9,730	3,072	7,775	28,897	62,993
9	Ground water sources on farm only.....farms reporting...	689	33	10	51	273	319
10	acres...	61,165	3,478	685	3,138	14,786	38,841
11	Surface sources on farm.....farms reporting...	1,145	218	164	131	428	189
12	acres...	88,502	17,775	15,330	8,741	25,768	19,007
13	Surface sources on farm only.....farms reporting...	519	74	81	94	178	81
14	acres...	50,387	7,048	10,440	5,855	15,713	10,339
15	Irrigation organization sources.....farms reporting...	14,428	2,329	2,152	892	6,242	2,784
16	acres...	859,764	167,415	198,184	36,460	265,491	190,045
17	Irrigation organization sources only.....farms reporting...	13,038	2,118	2,042	802	5,687	2,367
18	acres...	760,042	142,392	187,571	32,289	236,738	159,369
19	Both farm ground water sources and surface sources.....farms reporting...	64	13	2	7	35	5
20	acres...	8,519	1,331	364	1,574	3,474	443
21	Both irrigation organization and farm ground water or farm surface sources.....farms reporting...	1,391	211	110	90	555	417
22	acres...	181,570	40,671	17,526	10,120	49,445	63,053

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950

Item (For definitions and explanations, see text)	Utah, total						
	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users	
Irrigation organizations.....organizations 1959...	984	316	651	8	1	13	8
Service area, 1959:	1,058	406	634	5	1	10	12
Area served, as reported							
by organizations.....acres...	1,300,483	98,017	1,080,017	23,031	1,030	41,082	98,388
Area irrigated, as reported							
by organizations.....acres...	1,109,620	77,985	912,058	20,167	1,030	36,279	98,388
Water users served, 1959, total.....water users...	90,952	5,033	70,614	9,253	47	2,997	6,005
Farm irrigation water users.....water users...	45,001	2,442	37,345	1,984	47	1,603	2,183
Residential water users.....water users...	47,519	2,589	33,844	7,265	...	1,387	3,821
Other water users.....water users...	432	2	425	4	...	7	1
TYPE OF SERVICE, 1959							
All water directly from surface and ground							
water sources.....organizations...	796	267	520	2	1	10	6
Total water conveyed.....acre-feet...	3,073,998	201,833	2,582,784	5,039	29,414	249,325	254,928
Water delivered.....acre-feet...	2,640,664	176,404	2,220,235	4,551	10,532	213,645	228,942
To farm and residential users							
only.....organizations...	757	267	485	2	...	6	3
acre-feet...	1,790,347	176,404	1,602,711	4,551	...	64,067	6,681
To farm and residential users and other							
irrigation organizations.....organizations...	33	...	29	...	1	...	3
Water to farm and residential							
users.....acre-feet...	424,341	...	274,559	...	3,089	...	146,693
Water to other irrigation							
organizations.....acre-feet...	276,298	...	193,287	...	7,443	...	75,568
To other irrigation organizations							
only.....organizations...	5	...	5	...	...	4	...
acre-feet...	149,678	...	149,678	...	...	149,578	...
Part of water from other							
organizations.....organizations...	75	10	61	2	...	1	2
Total water conveyed.....acre-feet...	768,366	10,420	427,995	43,320	...	25,788	286,631
From surface and ground water							
sources.....acre-feet...	573,031	7,402	277,619	17,303	...	871	270,707
From other irrigation organizations.....acre-feet...	195,335	3,018	130,376	26,017	...	24,917	15,924
Water delivered.....acre-feet...	694,328	8,563	382,391	17,745	...	1,966	285,629
To farm and residential users							
only.....organizations...	65	10	54	1	...	...	...
acre-feet...	268,719	8,563	244,377	15,779	...	...	...
To farm and residential users and other							
irrigation organizations.....organizations...	9	...	7	1	...	1	1
Water to farm and residential							
users.....acre-feet...	302,047	...	88,390	494	...	494	213,163
Water to other irrigation							
organizations.....acre-feet...	106,374	...	4,624	1,472	...	1,472	55,278
To other irrigation organizations							
only.....organizations...	1	...	...	...	...	...	...
acre-feet...	17,188	...	...	...	...	...	17,188
All of water from other organizations.....organizations...	107	38	65	4	...	...	...
Total water conveyed.....acre-feet...	363,447	49,940	286,113	27,394	...	...	...
Water delivered.....acre-feet...	311,423	41,696	246,492	23,235	...	...	...
To farm and residential users							
only.....organizations...	103	37	62	4	...	...	...
acre-feet...	300,033	40,323	236,475	23,235	...	...	...
To farm and residential users and other							
irrigation organizations.....organizations...	2	...	2	...	...	...	...
Water to farm and residential							
users.....acre-feet...	3,206	...	3,206	...	...	...	...
Water to other irrigation							
organizations.....acre-feet...	2,632	...	2,632	...	...	...	...
To other irrigation organizations							
only.....organizations...	2	1	1	...	...	...	...
acre-feet...	5,552	1,373	4,179	...	...	...	...
No water conveyed.....organizations...	6	1	5	...	...	2	...
WATER FROM OTHER SOURCES							
Organizations reporting no water from other							
sources used on the land served by the							
organization.....organizations...	843	273	558	7	...	7	5
acres served...	1,033,131	83,025	895,769	18,031	...	41,082	36,306
acres irrigated...	883,664	66,076	766,123	15,167	...	36,279	36,298
water delivered to farms (acre-feet)...	2,425,877	187,929	2,058,114	32,148	...	60,825	147,686
acre-feet per acre...	2.7	2.8	2.7	2.1	...	1.7	4.1
Organizations reporting water from other							
sources used on land served by the							
organization.....organizations...	123	41	79	1	...	...	1
acres served...	294,360	15,432	210,593	5,000	1,030	...	62,305
acres irrigated...	251,055	12,334	170,386	5,000	1,030	...	62,305
water delivered to farms (acre-feet)...	555,982	27,438	308,545	3,867	3,089	...	213,043
acre-feet per acre...	2.2	2.2	1.8	0.8	3.0	...	3.4
NEW CAPITAL INVESTMENT, 1950-1959							
Expenditures for additional new works and							
equipment for irrigation and drainage,							
January 1, 1950-December 31, 1959.....organizations...	564	141	409	7	1	10	6
By U. S. B. R.....dollars...	30,555,996	...	12,355,996	...	18,200,000	12,355,996	...
By water users organizations.....dollars...	7,790,263	648,186	6,497,794	415,383	...	241,425	228,900

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

Item (For definitions and explanations, see text)	Utah, total						
	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users	
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
Total entering conveyance systems.....organizations... acre-feet.....	978 3,648,089	315 210,035	646 2,860,663	8 22,342	1 29,414	11 250,196	8 525,635
From another drainage basin.....organizations... acre-feet.....	11 91,394	1 800	9 89,925	...	...	...	...
From drainage basin.....D. B. No.....	...	...	...	...	...	...	669
From sources within basin.....organizations... acre-feet.....	863 3,556,695	277 209,235	574 2,770,738	4 22,342	1 29,414	11 250,196	7 524,966
Surface water.....organizations... acre-feet.....	754 3,401,225	217 162,180	526 2,664,948	3 21,471	1 28,200	11 249,323	6 524,426
Ground water.....organizations... acre-feet.....	152 155,470	67 47,055	82 105,790	1 871	1 1,214	1 871	1 540
From other organizations in the basin.....organizations receiving... acre-feet.....	179 597,722	47 52,158	124 436,229	6 53,411	...	...	2 15,924
Total leaving conveyance systems.....organizations... acre-feet.....	978 3,648,089	315 260,820	646 2,897,492	8 74,281	1 21,971	11 124,063	8 393,525
Conveyance loss in basin.....organizations... acre-feet.....	808 466,721	249 35,228	546 398,832	6 5,200	1 3,033	8 12,960	6 24,428
Conveyed to another drainage basin.....organizations... acre-feet.....	5 13,355	...	5 13,355	...	...	...	...
To drainage basin number.....D. B. No.....	...	...	...	...	...	...	...
Delivered for use in the basin.....organizations... acre-feet.....	970 3,168,013	314 225,592	640 2,485,305	8 69,081	1 18,938	9 111,103	7 369,097
To farm irrigation water users.....organizations... acre-feet.....	965 2,956,192	314 214,492	636 2,342,369	8 36,015	1 3,089	6 60,825	6 360,227
To domestic water users.....organizations... acre-feet.....	245 132,501	21 10,798	214 107,349	5 8,044	...	5 3,736	5 6,310
For other use.....organizations... acre-feet.....	30 79,320	1 302	25 35,587	2 25,022	1 15,849	3 46,542	3 2,560
Delivered to other irrigation organizations.....organizations delivering... acre-feet.....	52 597,722	1 1,373	44 399,400	1 1,472	1 7,443	5 151,050	5 148,034
SIZE OF ORGANIZATION, 1959							
Size of organization (number of farm irrigation water users):							
None.....organizations...	19	3	14	...	...	6	2
1 to 3 water users.....organizations...	134	106	28	...	...	...	...
4 to 9 water users.....organizations...	264	146	117	1	...	...	...
10 to 29 water users.....organizations...	284	51	230	1	...	1	2
30 to 99 water users.....organizations...	178	9	166	2	1	1	...
100 to 299 water users.....organizations...	74	1	72	1	...	3	...
300 to 999 water users.....organizations...	31	...	24	3	...	2	4
1,000 or more water users.....organizations...	...	...	...	...	...	...	...
Size of organization (acre-feet of water delivered directly to farms):							
None.....organizations...	17	2	13	...	...	6	2
1 to 299 acre-feet.....organizations...	204	119	84	...	...	...	1
300 to 999 acre-feet.....organizations...	292	130	158	3	...	2	1
1,000 to 2,999 acre-feet.....organizations...	266	97	208	...	...	1	1
3,000 to 9,999 acre-feet.....organizations...	150	8	136	4	1	2	1
10,000 to 29,999 acre-feet.....organizations...	42	...	41	1	...	1	...
30,000 to 99,999 acre-feet.....organizations...	11	...	11	...	...	1	...
100,000 or more acre-feet.....organizations...	2	...	...	...	...	...	2
Size of organization (acre-feet of water conveyed):							
None.....organizations...	6	1	5	...	...	2	...
1 to 299 acre-feet.....organizations...	159	95	64	...	...	...	...
300 to 999 acre-feet.....organizations...	277	141	134	1	...	1	1
1,000 to 2,999 acre-feet.....organizations...	280	65	214	...	...	1	1
3,000 to 9,999 acre-feet.....organizations...	183	16	162	2	...	2	2
10,000 to 29,999 acre-feet.....organizations...	55	50	50	1	1	4	2
30,000 to 99,999 acre-feet.....organizations...	22	...	22	...	...	3	...
100,000 or more acre-feet.....organizations...	2	...	...	...	...	...	2

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

Item (For definitions and explanations, see text)	Bonneville Basin (excluding Bear River), Sevier River direct, Snake Valley, Escalante River and Shoshone Creek, Beaver River, Little Salt Lake, and Coal Creek (III-D 4-9)						
	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users	
Irrigation organizations.....organizations 1959...	256	95	160	1	...	2	...
1949...	282	117	163	...	...	NA	2
Service area, 1959:							
Area served, as reported							
by organizations.....acres...	360,641	31,774	324,667	(D)	...	(D)	...
Area irrigated, as reported							
by organizations.....acres...	258,960	22,788	231,972	(D)	...	(D)	...
Water users served, 1959, total.....water users...	14,498	2,310	12,123	(D)	...	(D)	...
Farm irrigation water users.....water users...	8,443	619	7,799	(D)	...	(D)	...
Residential water users.....water users...	5,693	1,690	4,003	...	...	(D)	...
Other water users.....water users...	362	1	361	...	...	...	...
TYPE OF SERVICE, 1959							
All water directly from surface and ground							
water sources.....organizations...	237	87	149	1	...	2	...
Total water conveyed.....acre-feet...	703,816	69,296	629,900	(D)	...	(D)	...
Water delivered.....acre-feet...	577,430	61,177	512,095	(D)	...	(D)	...
To farm and residential users							
only.....organizations...	228	87	140	1	...	1	...
acre-feet...	462,899	61,177	397,564	(D)	...	(D)	...
To farm and residential users and other							
irrigation organizations.....organizations...	8	...	8	...	...	...	...
Water to farm and residential							
users.....acre-feet...	45,708	...	45,708	...	...	...	...
Water to other irrigation							
organizations.....acre-feet...	68,723	...	68,723	...	...	...	...
To other irrigation organizations							
only.....organizations...	1	...	1	...	...	...	...
acre-feet...	100	...	100	...	...	...	...
Part of water from other							
organizations.....organizations...	10	7	3	...	...	...	...
Total water conveyed.....acre-feet...	12,653	7,500	5,153	...	...	...	...
From surface and ground water							
sources.....acre-feet...	10,447	5,682	4,765	...	...	...	...
From other irrigation organizations.....acre-feet...	2,206	1,818	388	...	...	...	...
Water delivered.....acre-feet...	10,591	6,180	4,411	...	...	...	...
To farm and residential users							
only.....organizations...	10	7	3	...	...	...	...
acre-feet...	10,591	6,180	4,411	...	...	...	...
To farm and residential users and other							
irrigation organizations.....organizations...	...	...	...	...	...	...	...
Water to farm and residential							
users.....acre-feet...	...	...	...	...	...	...	...
Water to other irrigation							
organizations.....acre-feet...	...	...	...	...	...	...	...
To other irrigation organizations							
only.....organizations...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
All of water from other organizations.....organizations...	7	1	6	...	...	...	...
Total water conveyed.....acre-feet...	68,541	1,080	67,461	...	...	...	...
Water delivered.....acre-feet...	52,644	1,026	51,618	...	...	...	...
To farm and residential users							
only.....organizations...	6	1	5	...	...	...	...
acre-feet...	50,025	1,026	48,999	...	...	...	...
To farm and residential users and other							
irrigation organizations.....organizations...	1	...	1	...	...	...	...
Water to farm and residential							
users.....acre-feet...	695	...	695	...	...	...	...
Water to other irrigation							
organizations.....acre-feet...	1,924	...	1,924	...	...	...	...
To other irrigation organizations							
only.....organizations...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
No water conveyed.....organizations...	2	...	2	...	...	...	...
WATER FROM OTHER SOURCES							
Organizations reporting no water from other							
sources used on the land served by the							
organization.....organizations...	197	68	128	1	...	2	...
acres served...	265,823	22,456	239,167	(D)	...	(D)	...
acres irrigated...	199,666	15,726	179,740	(D)	...	(D)	...
water delivered to farms (acre-feet)...	451,067	47,069	399,840	(D)	...	(D)	...
acre-feet per acre...	2.3	3.0	2.2	(D)	...	(D)	...
Organizations reporting water from other							
sources used on land served by the							
organization.....organizations...	56	27	29	...	...	...	...
acres served...	96,158	9,318	86,840	...	...	...	...
acres irrigated...	60,144	7,062	53,082	...	...	...	...
water delivered to farms (acre-feet)...	104,555	14,901	89,654	...	...	...	...
acre-feet per acre...	1.7	2.1	1.7	...	...	...	...
NEW CAPITAL INVESTMENT, 1950-1959							
Expenditures for additional new works and							
equipment for irrigation and drainage,							
January 1, 1950-December 31, 1959.....organizations...	153	45	107	1	...	1	...
By U. S. B. R. ....dollars...	...	...	...	...	...	...	...
By water users organizations.....dollars...	2,380,038	300,673	2,078,715	(D)	...	(D)	...
See footnotes at end of table.							

IRRIGATION OF AGRICULTURAL LANDS

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

Bonneville Basin (excluding Bear River), Sevier River direct, Snake Valley, Escalante River and Shoal Creek, Beaver River, Little Salt Lake, and Coal Creek (III-D 4-9)							
Item (For definitions and explanations, see text)	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users	
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
Total entering conveyance systems.....organizations...	254	95	158	1	...	2	...
acre-feet.....	714,263	74,978	634,665	(D)	...	(D)	...
From another drainage basin.....organizations...	1	...	1	...	...	...	...
acre-feet.....	15,330	...	15,330	...	...	...	...
From drainage basin.....D. B. No.....	...	...	...	...	...	...	...
From sources within basin.....organizations...	246	94	151	1	...	2	...
acre-feet.....	698,933	74,978	619,335	(D)	...	(D)	...
Surface water.....organizations...	200	60	139	1	...	2	...
acre-feet.....	642,905	49,610	588,675	(D)	...	(D)	...
Ground water.....organizations...	65	37	28	...	...	...	...
acre-feet.....	56,028	25,368	30,660	...	...	...	...
From other organizations in the basin.....organizations receiving...	17	8	9	...	...	...	...
acre-feet.....	70,747	2,898	67,849	...	...	...	...
Total leaving conveyance systems.....organizations...	254	95	158	1	...	2	...
acre-feet.....	714,263	77,876	631,767	(D)	...	(D)	...
Conveyance loss in basin.....organizations...	221	78	142	1	...	2	...
acre-feet.....	138,101	9,191	128,448	(D)	...	(D)	...
Conveyed to another drainage basin.....organizations...	1	...	1	...	...	...	...
acre-feet.....	2,920	...	2,920	...	...	...	...
To drainage basin number.....D. B. No.....	...	...	...	...	...	...	...
Delivered for use in the basin.....organizations...	253	95	157	1	...	2	...
acre-feet.....	573,242	68,685	500,399	(D)	...	(D)	...
To farm irrigation water users.....organizations...	253	95	157	1	...	2	...
acre-feet.....	553,262	61,970	487,134	(D)	...	(D)	...
To domestic water users.....organizations...	46	4	42	...	...	2	...
acre-feet.....	16,656	6,413	10,243	...	...	(D)	...
For other use.....organizations...	6	1	5	...	...	...	...
acre-feet.....	3,324	302	3,022	...	...	...	...
Delivered to other irrigation organizations.....organizations delivering...	10	...	10	...	...	...	...
acre-feet.....	70,747	...	70,747	...	...	...	...
SIZE OF ORGANIZATION, 1959							
Size of organization (number of farm irrigation water users):							
None.....organizations...	3	...	3	(D)	...	(D)	...
1 to 3 water users.....organizations...	40	33	7	(D)	...	(D)	...
4 to 9 water users.....organizations...	77	53	24	(D)	...	(D)	...
10 to 29 water users.....organizations...	66	6	60	(D)	...	(D)	...
30 to 99 water users.....organizations...	49	3	45	(D)	...	(D)	...
100 to 299 water users.....organizations...	18	...	18	(D)	...	(D)	...
300 to 999 water users.....organizations...	3	...	3	(D)	...	(D)	...
1,000 or more water users.....organizations...	...	...	...	...	...	(D)	...
Size of organization (acre-feet of water delivered directly to farms):							
None.....organizations...	3	...	3	(D)	...	(D)	...
1 to 299 acre-feet.....organizations...	64	38	26	(D)	...	(D)	...
300 to 999 acre-feet.....organizations...	79	39	40	(D)	...	(D)	...
1,000 to 2,999 acre-feet.....organizations...	65	16	49	(D)	...	(D)	...
3,000 to 9,999 acre-feet.....organizations...	24	2	31	(D)	...	(D)	...
10,000 to 29,999 acre-feet.....organizations...	10	...	10	(D)	...	(D)	...
30,000 to 99,999 acre-feet.....organizations...	1	...	1	(D)	...	(D)	...
100,000 or more acre-feet.....organizations...	...	...	...	...	...	(D)	...
Size of organization (acre-feet of water conveyed):							
None.....organizations...	2	...	2	(D)	...	(D)	...
1 to 299 acre-feet.....organizations...	55	31	24	(D)	...	(D)	...
300 to 999 acre-feet.....organizations...	76	44	32	(D)	...	(D)	...
1,000 to 2,999 acre-feet.....organizations...	63	14	49	(D)	...	(D)	...
3,000 to 9,999 acre-feet.....organizations...	42	6	35	(D)	...	(D)	...
10,000 to 29,999 acre-feet.....organizations...	14	...	14	(D)	...	(D)	...
30,000 to 99,999 acre-feet.....organizations...	4	...	4	(D)	...	(D)	...
100,000 or more acre-feet.....organizations...	...	...	...	...	...	(D)	...

D Data not shown to avoid disclosure of information for individual organizations.

NA Not available.

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

Bonneville Basin (excluding Bear River), Northwest Great Salt Lake Basin, Southwest Great Salt Lake Basin, and Southeast Great Salt Lake Basin (III-0 1-3)								
Item (For definitions and explanations, see text ¹)	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other	
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users		
Irrigation organizations.....organizations 1959...	420	113	294	6	1	8	6	
1949...	450	167	275	3	1	NA	4	
Service area, 1959:								
Area served, as reported								
by organizations.....acres...	377,385	23,827	333,364	15,331	1,030	26,577	3,833	
Area irrigated, as reported								
by organizations.....acres...	347,251	19,541	310,380	12,467	1,030	25,167	3,833	
Water users served, 1959, total.....water users...	57,382	1,747	42,382	9,027	47	2,128	4,179	
Farm irrigation water users.....water users...	20,829	964	17,383	1,759	47	1,204	676	
Residential water users.....water users...	36,489	782	24,939	7,265	...	917	3,503	
Other water users.....water users...	64	1	60	3	...	7	...	
TYPE OF SERVICE, 1959								
All water directly from surface and ground								
water sources.....organizations...	307	95	205	1	1	6	5	
Total water conveyed.....acre-feet...	1,114,777	64,019	993,262	419	29,434	202,458	27,663	
Water delivered.....acre-feet...	974,401	56,722	881,385	393	10,332	170,802	25,369	
To farm and residential users								
only.....organizations...	289	95	191	1	...	3	2	
acre-feet...	618,135	56,722	555,119	393	...	54,647	5,901	
To farm and residential users and other								
irrigation organizations.....organizations...	16	...	12	...	1	...	3	
Water to farm and residential								
users.....acre-feet...	137,431	...	122,134	...	3,089	...	12,208	
Water to other irrigation								
organizations.....acre-feet...	102,680	...	87,977	...	7,443	...	7,260	
To other irrigation organizations								
only.....organizations...	2	...	2	...	...	2	...
acre-feet...	116,155	...	116,155	...	...	116,155	...
Part of water from other								
organizations.....organizations...	55	1	51	2	...	1	1	
Total water conveyed.....acre-feet...	380,217	1,114	317,593	43,320	...	25,788	18,190	
From surface and ground water								
sources.....acre-feet...	212,386	720	183,458	17,303	...	871	10,905	
From other irrigation organizations.....acre-feet...	167,831	394	134,135	26,017	...	24,917	7,285	
Water delivered.....acre-feet...	318,873	814	283,126	17,745	...	1,966	17,188	
To farm and residential users								
only.....organizations...	46	1	44	1	...	...	...
acre-feet...	161,705	814	145,112	15,779	...	...	...
To farm and residential users and other								
irrigation organizations.....organizations...	8	...	7	1	...	1	...	
Water to farm and residential								
users.....acre-feet...	88,884	...	88,390	494	...	494	...	
Water to other irrigation								
organizations.....acre-feet...	51,096	...	49,624	1,472	...	1,472	...	
To other irrigation organizations								
only.....organizations...	1	...	...	...	...	...	1
acre-feet...	17,188	...	...	...	...	...	17,188
All of water from other organizations.....organizations...	54	16	35	3	...	...	...
Total water conveyed.....acre-feet...	125,548	9,849	96,209	19,494	...	...	...
Water delivered.....acre-feet...	117,879	9,110	90,434	18,335	...	...	...
To farm and residential users								
only.....organizations...	51	15	33	3	...	...	...
acre-feet...	109,108	7,737	83,036	18,335	...	...	...
To farm and residential users and other								
irrigation organizations.....organizations...	1	...	1	...	...	...	...
Water to farm and residential								
users.....acre-feet...	2,511	...	2,511	...	...	...	...
Water to other irrigation								
organizations.....acre-feet...	708	...	708	...	...	...	...
To other irrigation organizations								
only.....organizations...	2	1	1	...	...	...	...
acre-feet...	5,552	1,373	4,179	...	...	...	...
No water conveyed.....organizations...	4	1	3	...	...	...	...
WATER FROM OTHER SOURCES								
Organizations reporting no water from other								
sources used on the land served by the								
organization.....organizations...	362	104	249	5	...	4	4	
acres served.....acres...	364,686	19,804	298,423	10,331	...	26,577	36,128	
acres irrigated.....acres...	338,635	15,968	279,072	7,467	...	25,167	36,128	
water delivered to farms (acre-feet)...	1,092,765	52,486	870,183	23,090	...	52,291	247,006	
acre-feet per acre.....	3.2	3.3	3.1	3.1	...	2.7	4.1	
Organizations reporting water from other								
sources used on land served by the								
organization.....organizations...	46	7	37	1	1	...	...
acres irrigated.....acres...	50,074	4,023	40,021	5,000	1,030	...	...
water delivered to farms (acre-feet)...	45,591	3,573	36,368	5,000	1,030	...	...
acre-feet per acre.....	87,264	9,427	70,881	3,867	3,089	...	...
	1.9	2.6	1.9	0.8	3.0	...	...
NEW CAPITAL INVESTMENT, 1950-1959								
Expenditures for additional new works and								
equipment for irrigation and drainage,								
January 1, 1950-December 31, 1959.....organizations...	203	39	154	5	1	...	4	
By U. S. B. R. ....dollars...	30,555,996	12,355,996	...	18,200,000	12,355,996	...	...
By water users organizations.....dollars...	2,800,507	83,219	2,101,835	413,733	...	86,748	201,700	
See footnote at end of table.								

IRRIGATION OF AGRICULTURAL LANDS

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

Item (For definitions and explanations, see text)	Bonneville Basin (excluding Bear River), Northwest Great Salt Lake Basin, Southwest Great Salt Lake Basin, and Southeast Great Salt Lake Basin (III-D 1-3)						
	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users	
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
Total entering conveyance systems.....organizations... acre-feet....	416 1,327,163	112 64,739	291 1,176,720	6 17,722	1 29,414	6 203,329	6 38,568
From another drainage basin.....organizations... acre-feet....	7 115,862	... ...	5 111,603	... ...	... ...	2 101,973	2 4,299
From drainage basin.....D. B. No....	...	...	...	...	...	...	...
From sources within basin.....organizations... acre-feet....	359 1,211,301	96 64,739	255 1,065,117	3 17,722	1 29,414	6 101,356	4 34,309
Surface water.....organizations... acre-feet....	326 1,162,637	87 53,821	232 1,029,996	2 16,851	1 28,200	5 100,485	4 33,769
Ground water.....organizations... acre-feet....	45 48,664	11 10,918	21 35,121	1 871	1 1,214	1 871	1 540
From other organizations in the basin.....organizations receiving... acre-feet....	109 293,379	17 10,243	86 230,340	5 45,511	... ...	1 24,917	1 7,285
Total leaving conveyance systems.....organizations... acre-feet....	416 1,327,163	112 73,609	291 1,148,417	6 61,761	1 21,971	6 110,619	6 21,405
Conveyance loss in basin.....organizations... acre-feet....	326 138,593	84 8,336	232 120,990	4 2,938	1 3,033	5 8,936	5 3,296
Conveyed to another drainage basin.....organizations... acre-feet....	...	...	...	...	...	...	...
To drainage basin number.....D. B. No....	...	...	...	...	...	...	...
Delivered for use in the basin.....organizations... acre-feet....	413 1,188,970	111 65,273	290 1,027,427	6 58,823	1 18,938	6 101,683	5 18,109
To farm irrigation water users.....organizations... acre-feet....	409 1,036,289	111 61,913	287 934,111	6 26,957	1 3,089	3 52,291	4 12,219
To domestic water users.....organizations... acre-feet....	140 79,485	13 3,360	120 62,191	4 8,044	...	2 2,850	...
For other use.....organizations... acre-feet....	19 70,796	... ...	17 31,125	1 23,822	1 15,849	3 46,542	...
Delivered to other irrigation organizations.....organizations delivering... acre-feet....	29 293,379	1 1,373	23 258,643	1 1,472	1 7,443	3 117,627	3 24,448
SIZE OF ORGANIZATION, 1959							
Size of organization (number of farm irrigation water users):							
None.....organizations... 1 to 3 water users.....organizations... 4 to 9 water users.....organizations... 10 to 29 water users.....organizations... 30 to 99 water users.....organizations... 100 to 299 water users.....organizations... 300 to 999 water users.....organizations... 1,000 or more water users.....organizations...	13 55 110 115 72 38 17 ...	2 43 45 19 3 1 11 ...	9 12 64 94 67 37 11 ...	... ... 1 1 1 1 3 ...	... ... ... ... ... ... ...	4 1 1 2 3 ...	2 1 1 1 3 ...
Size of organization (acre-feet of water delivered directly to farms):							
None.....organizations... 1 to 299 acre-feet.....organizations... 300 to 999 acre-feet.....organizations... 1,000 to 2,999 acre-feet.....organizations... 3,000 to 9,999 acre-feet.....organizations... 10,000 to 29,999 acre-feet.....organizations... 30,000 to 99,999 acre-feet.....organizations... 100,000 or more acre-feet.....organizations...	11 92 121 102 61 17 5 1	2 52 41 16 2	7 40 87 84 55 16 5 ...	... ... 3 1 ... ...	... ... ... ... ... ... ... ...	4 ... 1 1 1 1 ...	2 2 1 1 ... 1
Size of organization (acre-feet of water conveyed):							
None.....organizations... 1 to 299 acre-feet.....organizations... 300 to 999 acre-feet.....organizations... 1,000 to 2,999 acre-feet.....organizations... 3,000 to 9,999 acre-feet.....organizations... 10,000 to 29,999 acre-feet.....organizations... 30,000 to 99,999 acre-feet.....organizations... 100,000 or more acre-feet.....organizations...	4 65 126 117 75 21 11 1	1 38 52 20 2	3 27 73 96 68 16 11 ...	... ... 1 2 ... ...	... ... ... ... ... ... ... ...	2 2 2 3 ...	... ... ... ... 1 1 1 ...

NA Not available.

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

Item (For definitions and explanations, see text)	Bear River (III-E)						
	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users	
Irrigation organizations.....organizations 1959...	140	47	91	1	...	2	1
1949...	140	51	88	...	...	NA	1
Service area, 1959:							
Area served, as reported							
by organizations.....acres...	206,748	23,830	(D)	(D)	...	(D)	(D)
Area irrigated, as reported							
by organizations.....acres...	188,996	22,972	(D)	(D)	...	(D)	(D)
Water users served, 1959, total.....water users...	9,699	565	(D)	(D)	...	(D)	(D)
Farm irrigation water users.....water users...	6,707	517	(D)	(D)	...	(D)	(D)
Residential water users.....water users...	2,986	48	(D)	(D)	...	(D)	(D)
Other water users.....water users...	6	...	(D)	(D)	...	...	(D)
TYPE OF SERVICE, 1959							
All water directly from surface and ground							
water sources.....organizations...	98	26	71	...	...	2	1
Total water conveyed.....acre-feet...	576,827	22,943	(D)	...	...	(D)	(D)
Water delivered.....acre-feet...	494,268	19,584	(D)	...	...	(D)	(D)
To farm and residential users							
only.....organizations...	93	26	67	...	...	1	...
220,881	19,584	(D)	...	...	(D)	...	...
To farm and residential users and other							
irrigation organizations.....organizations...	4	...	3	...	...	...	1
Water to farm and residential							
users.....acre-feet...	179,971	...	(D)	...	...	...	(D)
Water to other irrigation							
organizations.....acre-feet...	83,916	...	(D)	...	...	...	(D)
To other irrigation organizations							
only.....organizations...	1	...	1	...	...	1	...
9,500	...	(D)	...	...	(D)	...	...
Part of water from other							
organizations.....organizations...	4	1	3	...	...	...	...
Total water conveyed.....acre-feet...	11,830	750	(D)	...	...	...	...
From surface and ground water							
sources.....acre-feet...	8,130	150	(D)	...	...	...	...
From other irrigation organizations.....acre-feet...	3,700	600	(D)	...	...	...	...
Water delivered.....acre-feet...	9,006	671	(D)	...	...	...	...
To farm and residential users							
only.....organizations...	4	1	3	...	...	...	...
9,006	671	(D)	...	...	...	...	...
To farm and residential users and other							
irrigation organizations.....organizations...	...	...	...	...	...	...	...
Water to farm and residential							
users.....acre-feet...	...	...	...	...	...	...	...
Water to other irrigation							
organizations.....acre-feet...	...	...	...	...	...	...	...
To other irrigation organizations							
only.....organizations...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
All of water from other organizations.....organizations...	38	20	17	...	...	...	...
Total water conveyed.....acre-feet...	90,776	37,267	(D)	(D)	...	...	...
Water delivered.....acre-feet...	73,134	29,990	(D)	(D)	...	...	...
To farm and residential users							
only.....organizations...	38	20	17	...	...	...	...
73,134	29,990	(D)	(D)	...	...	...	...
To farm and residential users and other							
irrigation organizations.....organizations...	...	...	...	...	...	...	...
Water to farm and residential							
users.....acre-feet...	...	...	...	...	...	...	...
Water to other irrigation							
organizations.....acre-feet...	...	...	...	...	...	...	...
To other irrigation organizations							
only.....organizations...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
No water conveyed.....organizations...	...	...	...	...	...	...	...
WATER FROM OTHER SOURCES							
Organizations reporting no water from other							
sources used on the land served by the							
organization.....organizations...	133	45	86	1	...	1	1
213,497	23,454	(D)	(D)	...	(D)	(D)	(D)
acres irrigated.....acres served...	195,992	22,803	(D)	(D)	...	(D)	(D)
water delivered to farms (acre-feet)...	476,252	49,824	(D)	(D)	...	(D)	(D)
acre-feet per acre...	2.4	2.2	(D)	(D)	...	(D)	(D)
Organizations reporting water from other							
sources used on land served by the							
organization.....organizations...	6	2	4	...	...	...	...
15,846	816	(D)	...	...	...	...	...
acres served.....acres irrigated...	15,624	594	(D)	...	...	...	...
water delivered to farms (acre-feet)...	20,420	1,183	(D)	...	...	...	...
acre-feet per acre...	1.4	2.0	(D)	...	...	...	...
NEW CAPITAL INVESTMENT, 1950-1959							
Expenditures for additional new works and							
equipment for irrigation and drainage,							
January 1, 1950-December 31, 1959.....organizations...	76	17	57	1	...	2	1
By U. S. B. R.....dollars...	...	...	...	(D)	...	(D)	(D)
By water users organizations.....dollars...	439,125	20,415	391,960	...	...	...	...

See footnote at end of table.

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

Item (For definitions and explanations, see text)	Bear River (III-E)						
	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users	
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
Total entering conveyance systems.....	140 acre-feet.....	47 23,895	91 (D)	1 (D)	...	2 (D)	1 (D)
From another drainage basin.....	8 acre-feet.....	1 800	7 (D)	...	...	...	...
From drainage basin.....	D. B. No. ....	...	...	...	...	...	...
From sources within basin.....	97 acre-feet.....	27 23,095	69 (D)	...	...	2 (D)	1 (D)
Surface water.....	79 acre-feet.....	21 20,801	27 (D)	...	...	2 (D)	1 (D)
Ground water.....	23 acre-feet.....	6 2,294	17 (D)	...	...	...	...
From other organizations in the basin.....	39 acre-feet.....	20 37,067	18 (D)	1 (D)	...	...	...
Total leaving conveyance systems.....	140 acre-feet.....	47 60,962	91 (D)	1 (D)	...	2 (D)	1 (D)
Conveyance loss in basin.....	116 acre-feet.....	38 10,717	76 (D)	1 (D)	...	1 (D)	1 (D)
Conveyed to another drainage basin.....	5 acre-feet.....	...	4 (D)	...	...	...	1 (D)
To drainage basin number.....	D. B. No. ....	...	...	...	...	...	...
Delivered for use in the basin.....	138 acre-feet.....	47 50,245	89 (D)	1 (D)	...	1 (D)	1 (D)
To farm irrigation water users.....	138 acre-feet.....	47 50,132	89 (D)	1 (D)	...	1 (D)	1 (D)
To domestic water users.....	25 acre-feet.....	1 113	2 (D)	...	...	...	1 (D)
For other use.....	5 acre-feet.....	...	3 (D)	1 (D)	...	...	1 (D)
Delivered to other irrigation organizations.....	5 acre-feet.....	...	4 (D)	...	...	1 (D)	1 (D)
SIZE OF ORGANIZATION, 1959							
Size of organization (number of farm irrigation water users):							
None.....	1	...	(D)	(D)	...	(D)	(D)
1 to 3 water users.....	10	7	(D)	(D)	...	(D)	(D)
4 to 9 water users.....	27	16	(D)	(D)	...	(D)	(D)
10 to 29 water users.....	62	22	(D)	(D)	...	(D)	(D)
30 to 99 water users.....	24	24	(D)	(D)	...	(D)	(D)
100 to 299 water users.....	10	...	(D)	(D)	...	(D)	(D)
300 to 999 water users.....	6	...	(D)	(D)	...	(D)	(D)
1,000 or more water users.....	...	...	...	...	...	(D)	(D)
Size of organization (acre-feet of water delivered directly to farms):							
None.....	1	...	(D)	(D)	...	(D)	(D)
1 to 299 acre-feet.....	19	7	(D)	(D)	...	(D)	(D)
300 to 999 acre-feet.....	37	21	(D)	(D)	...	(D)	(D)
1,000 to 2,999 acre-feet.....	46	16	(D)	(D)	...	(D)	(D)
3,000 to 9,999 acre-feet.....	30	3	(D)	(D)	...	(D)	(D)
10,000 to 29,999 acre-feet.....	5	...	(D)	(D)	...	(D)	(D)
30,000 to 99,999 acre-feet.....	1	...	(D)	(D)	...	(D)	(D)
100,000 or more acre-feet.....	1	...	(D)	(D)	...	(D)	(D)
Size of organization (acre-feet of water conveyed):							
None.....	...	...	(D)	(D)	...	(D)	(D)
1 to 299 acre-feet.....	14	7	(D)	(D)	...	(D)	(D)
300 to 999 acre-feet.....	31	14	(D)	(D)	...	(D)	(D)
1,000 to 2,999 acre-feet.....	49	22	(D)	(D)	...	(D)	(D)
3,000 to 9,999 acre-feet.....	37	4	(D)	(D)	...	(D)	(D)
10,000 to 29,999 acre-feet.....	6	...	(D)	(D)	...	(D)	(D)
30,000 to 99,999 acre-feet.....	2	...	(D)	(D)	...	(D)	(D)
100,000 or more acre-feet.....	1	...	(D)	(D)	...	(D)	(D)

D Data not shown to avoid disclosure of information for individual organizations.

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

Item (For definitions and explanations, see text)		Colorado River above and below Lees Ferry, excluding Gila, Green, and Gunnison Rivers (IV-B and IV-D)						
		All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other
			Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users	
Irrigation organizations.....	organizations 1959...	88	36	51	...	...	...	1
	1949...	100	37	58	...	...	NA	5
Service area, 1959:								
Area served, as reported								
by organizations.....	acres.....	69,940	11,193	(D)	...	...	...	(D)
Area irrigated, as reported								
by organizations.....	acres.....	48,76D	5,738	(D)	...	...	...	(D)
Water users served, 1959, total.....	water users...	3,138	240	(D)	...	...	...	(D)
Farm irrigation water users.....	water users...	2,074	22D	(D)	...	...	...	(D)
Residential water users.....	water users...	1,084	20	(D)	...	...	...	(D)
Other water users.....	water users...	...	...	...	...	...	...	...
TYPE OF SERVICE, 1959								
All water directly from surface and ground								
water sources.....	organizations...	83	35	47	...	...	...	1
Total water conveyed.....	acre-feet...	187,015	20,580	(D)	...	...	...	(D)
Water delivered.....	acre-feet...	164,347	17,853	(D)	...	...	...	...
To farm and residential users								
only.....	organizations...	80	35	44	...	...	...	1
	acre-feet...	116,008	17,853	(D)	...	...	...	(D)
To farm and residential users and other								
irrigation organizations.....	organizations...	3	...	3	...	...	...	...
Water to farm and residential								
users.....	acre-feet...	39,238	...	(D)	...	...	...	...
Water to other irrigation								
organizations.....	acre-feet...	9,101	...	(D)	...	...	...	...
To other irrigation organizations								
only.....	organizations...	...	...	...	...	...	...	...
	acre-feet...	...	...	...	...	...	...	...
Part of water from other								
organizations.....	organizations...	2	1	1	...	...	...	...
Total water conveyed.....	acre-feet...	3,881	1,056	(D)	...	...	...	...
From surface and ground water								
sources.....	acre-feet...	2,050	850	(D)	...	...	...	...
From other irrigation organizations.....	acre-feet...	1,831	206	(D)	...	...	...	...
Water delivered.....	acre-feet...	3,473	898	(D)	...	...	...	...
To farm and residential users								
only.....	organizations...	2	1	1	...	...	...	...
	acre-feet...	3,473	898	(D)	...	...	...	...
To farm and residential users and other								
irrigation organizations.....	organizations...	...	...	...	...	...	...	...
Water to farm and residential								
users.....	acre-feet...	...	...	...	...	...	...	...
Water to other irrigation								
organizations.....	acre-feet...	...	...	...	...	...	...	...
To other irrigation organizations								
only.....	organizations...	...	...	...	...	...	...	...
	acre-feet...	...	...	...	...	...	...	...
All of water from other organizations.....	organizations...	3	...	3	...	...	...	...
Total water conveyed.....	acre-feet...	7,27D	...	(D)	...	...	...	...
Water delivered.....	acre-feet...	7,27D	...	(D)	...	...	...	...
To farm and residential users								
only.....	organizations...	3	...	3	...	...	...	...
	acre-feet...	7,27D	...	(D)	...	...	...	...
To farm and residential users and other								
irrigation organizations.....	organizations...	...	...	...	...	...	...	...
Water to farm and residential								
users.....	acre-feet...	...	...	...	...	...	...	...
Water to other irrigation								
organizations.....	acre-feet...	...	...	...	...	...	...	...
To other irrigation organizations								
only.....	organizations...	...	...	...	...	...	...	...
	acre-feet...	...	...	...	...	...	...	...
No water conveyed.....	organizations...	...	...	...	...	...	...	...
WATER FROM OTHER SOURCES								
Organizations reporting no water from other								
sources used on the land served by the								
organization.....	organizations...	86	35	50	...	...	...	(D)
	acres served...	68,41D	11,103	(D)	...	...	...	(D)
	acres irrigated...	48,260	5,678	(D)	...	...	...	(D)
water delivered to farms (acre-feet)...	acre-feet...	154,994	17,729	(D)	...	...	...	(D)
	acre-feet per acre...	3.2	...	(D)	...	...	...	3.1
Organizations reporting water from other								
sources used on land served by the								
organization.....	organizations...	2	1	1	...	...	...	...
	acres served...	1,590	90	(D)	...	...	...	...
	acres irrigated...	56D	60	(D)	...	...	...	...
water delivered to farms (acre-feet)...	acre-feet...	1,625	135	(D)	...	...	...	...
	acre-feet per acre...	2.9	2.2	(D)	...	...	...	...
NEW CAPITAL INVESTMENT, 1950-1959								
Expenditures for additional new works and								
equipment for irrigation and drainage,								
January 1, 1950-December 31, 1959.....	organizations...	64	21	42	...	...	...	1
By U. S. & B. R.	dollars.....	...	...	...	...	...	...	...
By water users organizations.....	dollars.....	1,027,180	198,219	827,511	...	...	...	...

See footnotes at end of table.

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

Item (For definitions and explanations, see text)	Green River (IV-E)						
	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users	
Irrigation organizations.....organizations 1959...	79	21	57	...	...	3	1
1949...	84	29	52	2	...	NA	1
Service area, 1959:							
Area served, as reported							
by organizations.....acres...	280,129	6,678	211,146	...	...	...	62,305
Area irrigated, as reported							
by organizations.....acres...	261,373	6,376	192,692	...	...	...	62,305
Water users served, 1959, total.....water users...	6,164	152	5,276	...	...	...	736
Farm irrigation water users.....water users...	4,897	103	4,076	...	...	...	718
Residential water users.....water users...	1,267	49	1,200	...	...	...	18
Other water users.....water users...	...	...	...	...	...	...	...
TYPE OF SERVICE, 1959							
All water directly from surface and ground							
water sources.....organizations...	69	20	49	...	...	3	...
Total water conveyed.....acre-feet...	602,083	23,417	578,666	...	...	125,896	...
Water delivered.....acre-feet...	426,552	19,834	406,718	...	...	23,923	...
To farm and residential users							
only.....organizations...	63	20	43	...	...	...	...
acre-feet...	368,758	19,834	348,924	...	...	...	...
To farm and residential users and other							
irrigation organizations.....organizations...	3	...	3	...	...	...	...
Water to farm and residential							
users.....acre-feet...	21,993	...	21,993	...	...	...	...
Water to other irrigation							
organizations.....acre-feet...	11,878	...	11,878	...	...	...	...
To other irrigation organizations							
only.....organizations...	...	2	...	...	...	2	...
acre-feet...	23,923	...	23,923	...	...	23,923	...
Part of water from other							
organizations.....organizations...	4	...	3	...	...	...	1
Total water conveyed.....acre-feet...	359,785	...	91,344	...	...	...	268,441
From surface and ground water							
sources.....acre-feet...	340,018	...	80,216	...	...	...	259,802
From other irrigation organizations.....acre-feet...	19,767	...	11,128	...	...	...	8,639
Water delivered.....acre-feet...	352,385	...	83,944	...	...	...	268,441
To farm and residential users							
only.....organizations...	3	...	3	...	...	...	...
acre-feet...	83,944	...	83,944	...	...	...	...
To farm and residential users and other							
irrigation organizations.....organizations...	1	...	...	...	...	...	1
Water to farm and residential							
users.....acre-feet...	213,163	...	...	...	...	...	213,163
Water to other irrigation							
organizations.....acre-feet...	55,278	...	...	...	...	...	55,278
To other irrigation organizations							
only.....organizations...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
All of water from other organizations.....organizations...	5	1	4	...	...	...	...
Total water conveyed.....acre-feet...	71,312	1,761	69,568	...	...	...	...
Water delivered.....acre-feet...	60,496	1,570	58,926	...	...	...	...
To farm and residential users							
only.....organizations...	5	1	4	...	...	...	...
acre-feet...	60,496	1,570	58,926	...	...	...	...
To farm and residential users and other							
irrigation organizations.....organizations...	...	...	...	...	...	...	...
Water to farm and residential							
users.....acre-feet...	...	...	...	...	...	...	...
Water to other irrigation							
organizations.....acre-feet...	...	...	...	...	...	...	...
To other irrigation organizations							
only.....organizations...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
No water conveyed.....organizations...	1	...	1	...	...	...	...
WATER FROM OTHER SOURCES							
Organizations reporting no water from other							
sources used on the land served by the							
organization.....organizations...	63	18	45	...	...	...	...
acres served...	157,361	5,773	151,588	...	...	...	...
acres irrigated...	138,487	5,471	133,016	...	...	...	...
water delivered to farms (acre-feet)...	408,124	19,825	388,299	...	...	...	...
acre-feet per acre...	2.9	3.6	2.9	...	...	...	...
Organizations reporting water from other							
sources used on land served by the							
organization.....organizations...	12	3	8	...	...	...	1
acres served...	130,412	905	67,302	...	...	...	62,305
acres irrigated...	129,196	905	65,986	...	...	...	62,305
water delivered to farms (acre-feet)...	341,880	1,554	127,283	...	...	...	213,043
acre-feet per acre...	2.6	1.7	1.9	...	...	...	3.4
NEW CAPITAL INVESTMENT, 1950-1959							
Expenditures for additional new works and							
equipment for irrigation and drainage,							
January 1, 1950-December 31, 1959.....organizations...	68	16	52	...	...	3	...
By U. S. B. R.....dollars...	...	...	...	...	...	...	...
By water users organizations.....dollars...	1,141,113	43,760	1,097,353	...	...	123,259	...
See footnote at end of table.							

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

Item (For definitions and explanations, see text)	Green River (IV-E)						
	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users	
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
Total entering conveyance systems.....organizations...	78	21	56	...	...	3	1
acre-feet...	942,101	23,417	658,882	...	...	125,896	259,802
From another drainage basin.....organizations...	...	...	...	...	...	...	...
From drainage basin.....D. B. No....	...	...	...	...	...	...	...
From sources within basin.....organizations...	73	20	52	...	...	3	1
Surface water.....organizations...	942,101	23,417	658,882	...	...	125,896	259,802
Ground water.....organizations...	72	19	52	...	...	3	1
acre-feet...	940,216	21,532	658,882	...	...	125,896	259,802
acre-feet...	1	1	...	...	...	...	...
acre-feet...	1,885	1,885	...	...	...	...	...
From other organizations in the basin.....organizations receiving...	9	1	7	...	...	...	1
acre-feet...	91,079	1,744	80,696	...	...	...	8,639
Total leaving conveyance systems.....organizations...	78	21	56	...	...	3	1
acre-feet...	942,101	23,417	703,777	...	...	101,973	213,163
Conveyance loss in basin.....organizations...	68	17	51	...	...	...	...
acre-feet...	79,969	3,797	76,212	...	...	...	...
Conveyed to another drainage basin.....organizations...	5	...	5	...	...	2	...
acre-feet...	113,778	...	113,778	...	...	101,973	...
To drainage basin number.....D. B. No....	...	...	...	...	...	...	...
Delivered for use in the basin.....organizations...	75	21	53	...	...	...	1
acre-feet...	748,354	21,404	513,787	...	...	...	213,163
To farm irrigation water users.....organizations...	74	21	52	...	...	...	1
To domestic water users.....organizations...	739,120	21,379	504,698	...	...	...	213,043
acre-feet...	15	1	13	...	...	...	1
For other use.....organizations...	9,234	25	9,089	...	...	...	120
acre-feet...	...	...	...	...	...	...	...
Delivered to other irrigation organizations.....organizations delivering...	6	...	5	...	...	1	1
acre-feet...	91,079	...	35,801	...	...	23,923	55,278
SIZE OF ORGANIZATION, 1959							
Size of organization (number of farm irrigation water users):							
None.....organizations...	5	1	4	...	...	3	...
1 to 3 water users.....organizations...	10	7	3	...	...	...	...
4 to 9 water users.....organizations...	21	12	9	...	...	...	...
10 to 29 water users.....organizations...	18	1	17	...	...	...	...
30 to 99 water users.....organizations...	14	...	14	...	...	...	...
100 to 299 water users.....organizations...	5	...	5	...	...	...	...
300 to 999 water users.....organizations...	6	...	5	...	...	...	1
1,000 or more water users.....organizations...	...	...	...	...	...	...	...
Size of organization (acre-feet of water delivered directly to farms):							
None.....organizations...	4	...	4	...	...	3	...
1 to 299 acre-feet.....organizations...	6	5	1	...	...	...	...
300 to 999 acre-feet.....organizations...	14	10	4	...	...	...	...
1,000 to 2,999 acre-feet.....organizations...	20	5	15	...	...	...	...
3,000 to 9,999 acre-feet.....organizations...	21	1	20	...	...	...	...
10,000 to 29,999 acre-feet.....organizations...	9	...	9	...	...	...	...
30,000 to 99,999 acre-feet.....organizations...	4	...	4	...	...	...	...
100,000 or more acre-feet.....organizations...	1	...	...	...	...	...	1
Size of organization (acre-feet of water conveyed):							
None.....organizations...	1	...	1	...	...	1	...
1 to 299 acre-feet.....organizations...	3	4	3	...	...	...	...
300 to 999 acre-feet.....organizations...	14	11	3	...	...	...	...
1,000 to 2,999 acre-feet.....organizations...	19	4	15	...	...	...	...
3,000 to 9,999 acre-feet.....organizations...	22	2	20	...	...	...	...
10,000 to 29,999 acre-feet.....organizations...	12	...	12	...	...	...	...
30,000 to 99,999 acre-feet.....organizations...	5	...	5	...	...	1	...
100,000 or more acre-feet.....organizations...	1	...	...	...	...	...	1

NA Not available.

State Table 5.—NUMBER OF IRRIGATION ORGANIZATIONS, TYPE OF SERVICE, NEW CAPITAL INVESTMENT, AND WATER CONVEYED, BY SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUS OF 1959

Item (For definitions and explanations, see text)	Utah, total					
	Northwest Great Salt Lake Basin, Southwest Great Salt Lake Basin, and Southeast Great Salt Lake Basin (III-D 1-3)					
	Size of organization, by total water conveyed					
	0-999 acre-feet	1,000-9,999 acre-feet	10,000 or more acre-feet	0-999 acre-feet	1,000-9,999 acre-feet	10,000 or more acre-feet
1 Number of organizations.....organizations...	442	463	79	195	192	33
TYPE OF SERVICE						
2 All water directly from surface and ground sources.....organizations...	383	349	64	152	132	23
3 Total water conveyed.....acre-feet...	164,800	1,084,909	1,824,709	67,148	390,118	657,511
4 Water delivered.....acre-feet...	142,932	925,285	1,772,447	59,905	344,767	569,729
5 To farm and residential users only.....organizations...	382	335	40	152	122	12
6 To farm and residential users only.....acre-feet...	142,832	872,455	1,775,060	59,305	317,355	240,875
7 To farm and residential users and other organizations.....organizations...	...	13	20	...	7	9
8 Water to farm and residential users.....acre-feet...	...	37,068	387,273	...	18,786	118,645
9 Water to other irrigation organizations.....acre-feet...	...	15,762	260,536	...	8,626	94,054
10 To other irrigation organizations only.....organizations...	...	1	4	...	...	2
11 To other irrigation organizations only.....acre-feet...	100	...	149,978	...	...	116,155
12 Part of water from other organizations.....organizations...	23	41	11	13	33	9
13 Total water conveyed.....acre-feet...	11,443	153,530	603,393	6,376	127,636	246,211
14 From surface and ground water sources.....acre-feet...	7,029	98,926	467,076	3,869	79,438	127,079
15 From other irrigation organizations.....acre-feet...	4,414	54,604	136,317	2,501	48,198	117,132
16 Water delivered.....acre-feet...	10,008	134,382	549,938	5,600	113,367	199,906
17 To farm and residential users only.....organizations...	23	38	4	13	30	3
18 To farm and residential users only.....acre-feet...	10,008	115,203	143,508	4,600	94,188	61,917
19 To farm and residential users and other organizations.....organizations...	...	3	6	...	3	5
20 Water to farm and residential users.....acre-feet...	...	12,203	289,844	...	12,203	76,681
21 Water to other irrigation organizations.....acre-feet...	...	6,976	99,398	...	6,976	44,120
22 To other irrigation organizations only.....organizations...	...	...	1	...	...	1
23 To other irrigation organizations only.....acre-feet...	...	...	17,188	...	...	17,188
24 All of water from other organizations.....organizations...	30	73	4	26	27	1
25 Total water conveyed.....acre-feet...	13,797	227,056	122,594	10,438	98,022	16,198
26 Water delivered.....acre-feet...	12,323	201,072	98,028	9,442	93,859	14,578
27 To farm and residential users only.....organizations...	30	69	4	26	24	1
28 To farm and residential users only.....acre-feet...	12,323	189,682	98,028	9,442	85,088	14,578
29 To farm and residential users and other organizations.....organizations...	...	2	...	...	1	...
30 Water to farm and residential users.....acre-feet...	...	3,206	...	...	2,511	...
31 Water to other irrigation organizations.....acre-feet...	...	2,632	...	...	708	...
32 To other irrigation organizations only.....organizations...	...	2	...	...	2	...
33 To other irrigation organizations only.....acre-feet...	...	5,552	...	...	5,552	...
34 No water conveyed.....organizations...	6	...	...	4	...	...
WATER FROM OTHER SOURCES						
35 Organizations reporting no water from other sources used on land served by the organization.....organizations...	374	405	64	171	163	28
36 acres served.....acres served...	105,375	492,013	435,743	51,208	155,806	177,672
37 acres irrigated.....acres irrigated...	70,423	407,711	405,530	23,867	140,906	173,862
38 Organizations reporting water from other sources used on land served by the organization.....organizations...	61	52	10	20	24	2
39 acres served.....acres served...	24,812	102,520	167,025	5,258	40,786	4,030
40 acres irrigated.....acres irrigated...	15,152	75,990	159,913	4,065	37,896	4,030
NEW CAPITAL INVESTMENT, 1950-1959						
41 Expenditures for additional new works and equipment for irrigation and drainage, January 1, 1950-December 31, 1959.....dollars...	211	288	65	80	98	25
	1,233,408	4,467,421	32,645,430	373,082	1,835,534	31,147,887
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959						
42 Total entering conveyance systems in basin.....organizations...	436	463	79	191	192	33
43 From another drainage basin.....organizations...	171,409	1,184,895	2,291,797	71,017	469,590	786,590
44 From another drainage basin.....acre-feet...	320	12,854	78,220	66,273	7,999	41,990
45 From Drainage Basin number.....D. B. No.....	...	...	...	...	...	...
46 From natural sources within basin.....organizations...	85	386	72	...	163	31
47 Surface water.....acre-feet...	171,089	1,172,041	2,213,565	4,744	461,957	744,600
48 Surface water.....organizations...	328	355	71	145	152	29
49 Ground water.....acre-feet...	134,876	1,067,968	2,198,381	1,6,277	427,399	740,975
50 Ground water.....organizations...	85	58	9	24	17	4
51 From other organizations in the basin.....organizations receiving...	36,213	104,073	15,184	11,021	34,018	3,625
52 From other organizations in the basin.....acre-feet...	53	112	14	39	60	10
53 Total leaving conveyance systems.....organizations...	18,211	280,600	258,911	12,939	147,110	133,330
54 Conveyance loss in basin.....organizations...	436	463	79	191	192	33
55 Conveyance loss in basin.....acre-feet...	189,520	1,434,573	2,023,996	83,946	594,804	648,403
56 Conveyed to another drainage basin.....organizations...	340	400	68	145	155	26
57 Conveyed to another drainage basin.....acre-feet...	24,145	186,175	256,401	8,835	62,442	67,316
58 To drainage basin number.....D. B. No.....	1	4	...	...	...	...
59 Delivered for use in the basin.....organizations...	35	13,320	...	...	...	...
60 To farm irrigation water users.....acre-feet...	435	458	77	191	190	32
61 To farm irrigation water users.....organizations...	165,340	1,235,078	1,767,595	75,121	532,362	581,087
62 To farm irrigation water users.....acre-feet...	65	429	74	...	188	30
63 To residential water users.....organizations...	159,135	1,136,966	1,660,091	70,179	475,350	492,760
64 To residential water users.....acre-feet...	65	142	38	47	76	17
65 For other use.....organizations...	6,028	92,851	33,622	4,768	54,781	19,936
66 For other use.....acre-feet...	177	5,261	73,882	174	2,231	68,391
67 Delivered to other irrigation organizations.....organizations delivering...	1	20	31	...	13	16
68 Delivered to other irrigation organizations.....acre-feet...	100	30,922	526,700	...	21,862	271,517
AVERAGE DELIVERY OF IRRIGATION WATER PER ACRE, 1959						
69 Per acre irrigated, as reported by irrigation organization:.....acre-feet...	1.9	2.4	3.0	2.5	2.7	3.5
70 All organizations.....organizations...	1.9	2.5	3.1	2.6	2.9	3.6
71 Organizations reporting no water from other sources used on land served by the organization.....organizations...	374	405	64	171	163	28
72 acres irrigated.....acre-feet...	1.9	2.5	3.1	2.6	2.9	3.6

¹Water was transferred to the basin and released to natural stream channels in excess of the quantity of surface water withdrawn by irrigation organizations. The net effect was to increase the available surface water supply in the basin or State.

IRRIGATION OF AGRICULTURAL LANDS

State Table 5.—NUMBER OF IRRIGATION ORGANIZATIONS, TYPE OF SERVICE, NEW CAPITAL INVESTMENT, AND WATER CONVEYED, BY SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUS OF 1959—Continued

Item (For definitions and explanations, see text)		Sevier River direct, Snake Valley, Escalante River and Shoal Creek, Beaver River, Little Salt Lake, and Coal Creek (III-D 4-9)				Bear River (III-E)		
		Size of organization, by total water conveyed						
		0-999 acre-feet	1,000- 9,999 acre-feet	10,000- 99,999 acre-feet	100,000 or more acre-feet	0-999 acre-feet	1,000- 9,999 acre-feet	100,000 or more acre-feet
1	Number of organizations.....organizations...	133	105	18	...	45	86	9
TYPE OF SERVICE								
2	All water directly from surface and ground sources.....organizations...	124	97	16	...	39	50	9
3	Total water conveyed.....acre-feet.....	46,827	300,972	356,017	...	18,586	172,801	385,440
4	Water delivered.....acre-feet.....	39,757	252,874	284,799	...	16,486	140,194	377,588
5	To farm and residential users only.....organizations...	123	93	12	...	39	50	4
6	To farm and residential users only.....acre-feet.....	39,697	237,684	185,558	...	16,486	140,194	64,201
7	To farm and residential users and other irrigation organizations.....organizations...	...	4	4	...	...	...	4
8	Water to farm and residential users.....acre-feet.....	...	9,662	36,046	...	...	...	179,971
9	Water to other irrigation organizations.....acre-feet.....	...	5,528	63,195	...	...	...	83,916
10	To other irrigation organizations only.....organizations...	1	...	...	...	...	...	1
11	To other irrigation organizations only.....acre-feet.....	100	...	...	...	...	...	9,500
12	Part of water from other organizations.....organizations...	7	3	...	...	2	2	...
13	Total water conveyed.....acre-feet.....	3,556	9,097	...	...	950	10,880	...
14	From surface and ground water sources.....acre-feet.....	2,410	8,037	...	...	350	7,780	...
15	From other irrigation organizations.....acre-feet.....	1,146	1,060	...	...	600	3,100	...
16	Water delivered.....acre-feet.....	3,095	7,496	...	...	796	8,210	...
17	To farm and residential users only.....organizations...	7	3	...	...	2	2	...
18	To farm and residential users only.....acre-feet.....	3,095	7,496	...	...	796	8,210	...
19	To farm and residential users and other irrigation organizations.....organizations...	...	...	...	...	...	...	...
20	Water to farm and residential users.....acre-feet.....	...	...	...	...	...	...	...
21	Water to other irrigation organizations.....acre-feet.....	...	...	...	...	...	...	...
22	To other irrigation organizations only.....organizations...	...	...	...	...	...	...	...
23	To other irrigation organizations only.....acre-feet.....	...	...	...	...	...	...	...
24	All of water from other organizations.....organizations...	...	5	2	...	4	34	...
25	Total water conveyed.....acre-feet.....	...	15,599	52,942	...	3,359	87,417	...
26	Water delivered.....acre-feet.....	...	14,630	38,014	...	2,881	70,253	...
27	To farm and residential users only.....organizations...	...	4	2	...	4	34	...
28	To farm and residential users only.....acre-feet.....	...	12,011	38,014	...	2,881	70,253	...
29	To farm and residential users and other irrigation organizations.....organizations...	...	1	...	...	...	...	...
30	Water to farm and residential users.....acre-feet.....	...	695	...	...	...	...	...
31	Water to other irrigation organizations.....acre-feet.....	...	1,924	...	...	...	...	...
32	To other irrigation organizations only.....organizations...	...	...	...	...	...	...	...
33	To other irrigation organizations only.....acre-feet.....	...	...	...	...	...	...	...
34	No water conveyed.....organizations.....	2	...	...	...	...	...	...
WATER FROM OTHER SOURCES								
35	Organizations reporting no water from other sources used on land served by the organization.....organizations...	98	84	15	...	41	85	7
36	Total water conveyed.....acre-feet.....	44,171	125,433	96,219	...	13,719	119,897	79,921
37	Water delivered.....acres irrigated.....	26,434	90,512	82,720	...	9,941	107,030	79,021
38	Organizations reporting water from other sources used on land served by the organization.....organizations...	32	21	3	...	4	1	1
39	Total water conveyed.....acre-feet.....	16,586	49,372	30,200	...	1,696	1,900	12,250
40	Water delivered.....acres irrigated.....	9,008	27,336	23,800	...	974	1,800	12,250
NEW CAPITAL INVESTMENT, 1950-1959								
41	Expenditures for additional new works and equipment for irrigation and drainage, January 1, 1950-December 31, 1959.....organizations...	62	73	18	...	24	47	5
42	.....dollars.....	616,441	1,297,293	506,304	...	29,146	314,398	95,881
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959								
43	Total entering conveyance systems in basin.....organizations...	131	105	18	...	45	86	9
44	From another drainage basin.....organizations...	49,237	309,009	356,017	...	18,936	181,641	385,440
45	From another drainage basin.....acre-feet.....	...	...	1	...	1	5	2
46	From another drainage basin.....D. B. No. ....	...	...	15,330	...	320	9,620	62,890
47	From another drainage basin.....D. B. No. ....	...	...	...	...	...	...	...
48	From natural sources within basin.....organizations...	49,237	309,009	340,687	...	18,616	172,021	322,550
49	Surface water.....organizations...	97	88	15	...	27	45	7
50	Surface water.....acre-feet.....	34,707	269,911	338,287	...	11,942	153,727	322,550
51	Ground water.....organizations...	37	24	4	...	13	10	...
52	Ground water.....acre-feet.....	14,530	39,098	2,400	...	6,674	18,300	...
53	From other organizations in the basin.....organizations receiving...	7	8	2	...	3	34	...
54	From other organizations in the basin.....acre-feet.....	1,146	16,659	52,942	...	3,959	89,457	...
55	Total leaving conveyance systems.....organizations...	131	105	18	...	45	86	9
56	Conveyance loss in basin.....organizations...	50,283	318,216	345,766	...	22,895	271,098	292,024
57	Conveyance loss in basin.....acre-feet.....	107	97	17	...	31	78	7
58	Conveyed to another drainage basin.....organizations...	7,528	46,688	83,885	...	2,697	44,591	38,332
59	Conveyed to another drainage basin.....acre-feet.....	...	1	...	...	...	2	...
60	Conveyed to another drainage basin.....D. B. No. ....	...	2,920	...	...	35	5,880	6,290
61	Delivered for use in the basin.....organizations...	130	105	18	...	45	85	8
62	Delivered for use in the basin.....acre-feet.....	42,755	268,608	261,879	...	20,163	220,627	247,402
63	To farm irrigation water users.....organizations...	130	105	18	...	45	85	8
64	To farm irrigation water users.....acre-feet.....	42,027	253,700	297,535	...	19,822	203,750	241,824
65	To residential water users.....organizations...	9	31	6	...	341	14,903	2,348
66	To residential water users.....acre-feet.....	725	13,848	2,063	...	...	...	...
67	For other use.....organizations...	1	3	2	...	...	1,970	3,230
68	For other use.....acre-feet.....	3	1,060	2,261	...	...	...	...
69	Delivered to other irrigation organizations.....organizations delivering...	1	5	4	...	...	...	...
70	Delivered to other irrigation organizations.....acre-feet.....	100	7,452	63,195	...	...	...	93,416
AVERAGE DELIVERY OF IRRIGATION WATER PER ACRE, 1959								
71	Per acre irrigated, as reported by irrigation organization:							
72	All organizations.....acre-feet.....	1.2	2.2	2.4	...	1.9	2.1	3.0
73	Organizations reporting no water from other sources used on land served by the organization.....organizations...	98	84	15	...	41	85	7
74	.....acre-feet.....	1.1	2.3	2.6	...	1.8	2.0	3.1

State Table 5.—NUMBER OF IRRIGATION ORGANIZATIONS, TYPE OF SERVICE, NEW CAPITAL INVESTMENT, AND WATER CONVEYED, BY SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUS OF 1959—Continued

Item (For definitions and explanations, see text)		Colorado River below Lees Ferry (excluding Gila River) and Colorado River above Lees Ferry (excluding Green and Gunnison Rivers)				Green River		
		(IV-B and IV-D)				(IV-E)		
		Size of organization, by total water conveyed						
		0-999 acre-feet	1,000- 9,999 acre-feet	10,000- 99,999 acre-feet	100,000 or more acre-feet	0,999 acre-feet	1,000- 9,999 acre-feet	10,000 or more acre-feet
1	Number of organizations.....organizations...	45	39	4	...	20	41	18
TYPE OF SERVICE								
2	All water directly from surface and ground sources.....organizations...	45	34	4	...	18	36	15
3	Total water conveyed.....acre-feet...	20,296	80,336	86,383	...	9,515	144,947	447,621
4	Water delivered.....acre-feet...	17,296	70,637	76,394	...	8,002	114,613	303,937
5	To farm and residential users only.....organizations...	45	33	2	...	18	34	11
6	To farm and residential users only.....acre-feet...	17,296	64,002	34,710	...	8,002	111,040	249,716
7	To farm and residential users and other							
8	irrigation organizations.....organizations...	...	1	2	...	...	1	2
9	Water to farm and residential users.....acre-feet...	...	6,449	32,789	...	...	2,171	19,822
10	Water to other irrigation organizations.....acre-feet...	...	206	8,895	...	...	1,402	10,476
11	To other irrigation organizations only.....organizations...	...	...	...	...	...	...	2
12	To other irrigation organizations only.....acre-feet...	...	...	...	...	...	...	23,923
13	Part of water from other organizations.....organizations...	...	2	...	...	1	1	2
14	Total water conveyed.....acre-feet...	...	3,881	...	...	567	2,036	357,182
15	From surface and ground water sources.....acre-feet...	...	2,050	...	...	400	1,621	377,997
16	From other irrigation organizations.....acre-feet...	...	1,831	...	...	167	415	19,185
17	Water delivered.....acre-feet...	...	3,473	...	...	517	1,836	350,032
18	To farm and residential users only.....organizations...	...	2	...	...	1	...	1
19	To farm and residential users only.....acre-feet...	...	3,473	...	...	517	1,836	81,591
20	To farm and residential users and other							
21	irrigation organizations.....organizations...	...	...	...	...	...	...	1
22	Water to farm and residential users.....acre-feet...	...	...	...	...	...	...	213,163
23	Water to other irrigation organizations.....acre-feet...	...	...	...	...	...	...	55,278
24	To other irrigation organizations only.....organizations...	...	...	...	...	...	...	...
25	To other irrigation organizations only.....acre-feet...	...	...	...	...	...	...	...
26	All of water from other organizations.....organizations...	...	3	...	...	...	4	...
27	Total water conveyed.....acre-feet...	...	7,270	...	...	...	17,858	53,454
28	Water delivered.....acre-feet...	...	7,270	...	...	...	15,060	45,436
29	To farm and residential users only.....organizations...	...	3	...	...	...	4	...
30	To farm and residential users only.....acre-feet...	...	7,270	...	...	...	15,060	45,436
31	To farm and residential users and other							
32	irrigation organizations.....organizations...	...	...	...	...	...	...	...
33	Water to farm and residential users.....acre-feet...	...	...	...	...	...	...	...
34	To other irrigation organizations only.....organizations...	...	...	...	...	...	...	...
35	To other irrigation organizations only.....acre-feet...	...	...	...	...	...	...	...
36	No water conveyed.....organizations...	...	...	...	...	1	...	...
WATER FROM OTHER SOURCES								
35	Organizations reporting no water from other sources used							
36	on land served by the organization.....organizations...	44	38	4	...	16	35	12
37	on land served by the organization.....acres served...	11,172	40,618	16,620	...	4,445	48,873	104,043
38	on land irrigated by the organization.....acres irrigated...	5,956	27,684	14,620	...	3,685	40,763	94,039
39	Organizations reporting water from other sources used							
40	on land served by the organization.....organizations...	1	1	...	...	3	5	4
41	on land served by the organization.....acres served...	90	1,500	...	...	905	8,962	120,545
42	on land irrigated by the organization.....acres irrigated...	60	500	...	...	905	8,458	119,833
NEW CAPITAL INVESTMENT, 1950-1959								
41	Expenditures for additional new works and							
42	equipment for irrigation and drainage, January 1, 1950-December 31, 1959.....organizations...	27	33	4	...	14	39	15
	dollars.....dollars...	194,179	660,385	172,616	...	18,660	399,411	723,042
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959								
43	Total entering conveyance systems in basin.....organizations...	45	39	4	...	19	41	18
44	From another drainage basin.....acre-feet...	20,296	82,386	86,383	...	9,915	146,568	785,618
45	From another drainage basin.....organizations...	...	1	...	...	...	...	...
46	From another drainage basin.....acre-feet...	...	2,920	...	...	...	...	...
47	From Drainage Basin number.....D. B. No. ....	...	...	...	...	...	...	...
48	From natural sources within basin.....organizations...	45	35	4	...	19	37	16
49	Surface water.....organizations...	20,296	79,466	86,383	...	9,915	146,568	785,618
50	Ground water.....organizations...	39	32	4	...	19	36	17
51	From other organizations in the basin.....acre-feet...	17,164	68,694	77,224	...	9,915	144,683	785,618
52	From other organizations in the basin.....organizations...	8	6	1	...	...	...	...
53	From other organizations in the basin.....acre-feet...	3,132	10,772	9,159	...	...	1,885	...
54	From other organizations in the basin.....organizations receiving...	5	5	...	...	1	5	3
55	From other organizations in the basin.....acre-feet...	...	9,101	...	...	167	18,273	72,639
56	Total leaving conveyance systems.....organizations...	45	39	4	...	19	41	18
57	Conveyance loss in basin.....acre-feet...	20,296	91,281	77,488	...	10,082	163,439	768,580
58	Conveyance loss in basin.....organizations...	37	33	4	...	15	37	16
59	Conveyance loss in basin.....acre-feet...	3,000	10,087	9,989	...	1,563	21,527	56,879
60	Conveyance loss in basin.....organizations...	...	...	...	...	...	11,805	101,973
61	To drainage basin number.....D. B. No. ....	...	...	...	...	...	...	...
62	Delivered for use in the basin.....organizations...	45	39	4	...	19	39	17
63	To farm irrigation water users.....acre-feet...	17,296	81,194	67,499	...	8,519	130,107	609,728
64	To farm irrigation water users.....organizations...	45	39	4	...	19	39	16
65	To residential water users.....acre-feet...	17,127	74,180	65,152	...	8,694	127,806	602,820
66	To residential water users.....organizations...	5	13	2	...	1	5	...
67	For other use.....acre-feet...	169	7,014	2,347	...	25	2,301	6,908
68	For other use.....organizations...	...	...	...	...	...	...	...
69	Delivered to other irrigation organizations.....acre-feet...	...	...	...	...	...	...	...
70	Delivered to other irrigation organizations.....organizations delivering...	...	1	2	...	...	1	...
71	Delivered to other irrigation organizations.....acre-feet...	...	206	8,895	...	...	1,402	89,677
AVERAGE DELIVERY OF IRRIGATION WATER PER ACRE, 1959								
72	Per acre irrigated, as reported by irrigation organization:							
73	All organizations.....acre-feet...	2.8	2.6	4.5	...	1.9	3.0	2.3
74	Organizations reporting no water from other sources used							
75	on land served by the organization.....organizations...	44	38	4	...	16	35	12
76	on land served by the organization.....acre-feet...	2.8	2.6	4.5	...	1.9	3.0	3.0

WASHINGTON

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IRRIGATION OF AGRICULTURAL LANDS

State Table 1.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY DRAINAGE BASINS:
CENSUSES OF 1959 AND 1950

	Item (For definitions and explanations, see text)	The State (North Pacific Coast)	North Pacific Coast excluding Columbia River (I-A)				Columbia River, total	Columbia River below Snake River (I-B)			
			Total	Pacific Coast direct	Puget Sound	Dungeness River		Total	Columbia River direct	Klickitat River	Walla Walla River
			(1)	(2)	(3)			(1)	(4)	(8)	
1	Total acres irrigated in Census year.....1959...	1,006,969	71,000	13,000	48,000	10,000	936,000	70,000	26,000	7,000	37,000
2	1949...	618,129	31,306	4,551	16,429	10,326	586,823	43,164	8,586	5,827	28,751
3	Irrigation organizations.....organizations 1959...	350	10	...	...	10	340	70	8	4	58
4	1949...	441	16	2	5	10	425	97	11	5	81
5	Service area, 1959: Farm area reported served by organizations.....acres 1959...	948,332	20,645	...	...	20,645	928,287	29,860	6,737	8,840	14,283
6	Farm area reported irrigated by organizations.....acres 1959...	847,752	15,680	...	...	15,680	832,072	28,371	5,897	8,600	13,874
7	Water users served, total.....water users 1959...	63,429	880	...	...	880	62,549	1,422	129	112	1,181
8	Farm irrigation water users.....water users 1959...	29,752	762	...	...	762	28,990	1,109	99	112	898
9	Residential water users.....water users 1959...	33,539	116	...	...	116	33,423	313	30	...	283
10	Other water users.....water users 1959...	138	2	...	...	2	136	...	...	...	...
	LAND IRRIGATED BY SOURCE OF WATER, 1959										
11	Ground water sources.....acres...	133,903	29,000	5,000	24,000	...	105,000	23,000	8,000	...	15,000
12	Surface water sources.....acres...	873,066	42,000	8,000	24,000	10,000	831,000	47,000	18,000	7,000	22,000
	WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959										
13	Total entering conveyance systems in basin.....organizations...	347	10	...	...	10	337	70	8	4	58
14	acre-feet...	4,922,092	114,483	...	...	114,483	4,807,609	132,111	44,605	33,317	54,189
15	From another drainage basin.....organizations...	3	...	...	...	...	3	1	1	...	...
16	acre-feet...	67,703	...	...	...	...	67,703	15,364	15,364	...	...
17	From drainage basin number.....D. B. No....	...	...	...	...	...	...	...	...	...	...
18	From natural sources within basin.....organizations...	322	10	...	...	10	312	69	7	4	58
19	acre-feet...	4,854,389	114,483	...	...	114,483	4,739,906	116,747	29,241	33,317	54,189
20	Surface water.....organizations...	303	10	...	...	10	293	67	7	4	56
21	acre-feet...	4,733,940	114,483	...	...	114,483	4,619,457	115,564	29,241	33,317	53,006
22	Ground water.....organizations...	27	...	...	...	...	27	5	...	...	5
23	acre-feet...	120,449	...	...	...	...	120,449	1,183	...	...	1,183
24	From other organizations in the basin.....organizations receiving...	34	...	...	...	...	34	...	...	...	...
25	acre-feet...	62,388	...	...	...	...	62,388	...	...	...	...
26	Total leaving conveyance systems.....organizations...	347	10	...	...	10	337	70	8	4	58
27	acre-feet...	4,922,092	114,483	...	...	114,483	4,807,609	132,111	44,605	33,317	54,189
28	Conveyance loss in basin.....organizations...	261	9	...	...	9	253	40	6	3	31
29	acre-feet...	1,153,487	10,931	...	...	10,931	1,142,556	17,550	8,650	6,545	2,355
30	Conveyed to another drainage basin.....organizations...	1	...	...	...	...	1	1	...	...	...
31	acre-feet...	4,364	...	...	...	...	4,364	4,364	4,364	...	...
32	To drainage basin number.....D. B. No....	...	...	...	...	...	...	...	...	...	...
33	Delivered for use in the basin.....organizations...	346	10	...	...	10	336	70	8	4	58
34	acre-feet...	3,764,241	103,552	...	...	103,552	3,660,689	110,197	31,591	26,772	51,834
35	To farm irrigation water users.....organizations...	345	10	...	...	10	335	70	8	4	58
36	acre-feet...	3,697,304	99,739	...	...	99,739	3,597,565	109,419	31,531	26,772	51,116
37	To residential water users.....organizations...	45	5	...	...	5	40	4	2	...	2
38	acre-feet...	37,836	3,678	...	...	3,678	34,158	778	60	...	718
39	For other use.....organizations...	21	1	...	...	1	20	...	...	...	...
40	acre-feet...	29,101	135	...	...	135	28,966	...	...	...	...
41	Delivered to other irrigation organizations.....organizations delivering...	10	...	...	...	...	10	...	...	...	...
42	acre-feet...	62,388	...	...	...	...	62,388	...	...	...	...
43	Average delivery of irrigation water per acre irrigated as reported by organizations...acre-feet...	4.4	6.4	...	...	6.4	4.3	3.9	5.3	3.1	3.6
	NEW CAPITAL INVESTMENT, 1950-1959										
44	Expenditures for additional new works and equipment for irrigation and drainage, Jan. 1, 1950-Dec. 31, 1959.....organizations...	117	4	...	...	4	113	9	2	...	7
45	dollars...	200,768,354	29,250	...	...	29,250	200,739,104	121,541	48,000	...	73,541

State Table 1.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY DRAINAGE BASINS:
CENSUSES OF 1959 AND 1950—Continued

Item (For definitions and explanations, see text)	Columbia River above Snake River excluding Yakima River (1-C)									
	Total	Columbia River direct				Wenatchee River	Lake Chelan	Methow River	Okanogan River	Grand Coulee area, Spokane River and Clark Fork
		Total	Below Trinidad, Washington	Trinidad to Rocky Reach Gage	Above Rocky Reach Gage					
		(1a)	(1b)	(1c, d)	(3)	(4)	(5)	(6)	(2, 7, 8a)	
1 Total acres irrigated in Census year.....1959...	410,000	168,000	120,000	20,000	28,000	12,000	7,000	12,000	25,000	186,000
2 .....1949...	113,842	43,368	13,998	NA	NA	14,250	5,421	8,588	16,214	26,001
3 Irrigation organizations.....organizations 1959...	149	77	5	54	18	20	3	27	11	14
4 .....1949...	171	82	7	NA	NA	28	3	30	10	19
Service area, 1959: Farm acres reported served by organizations.....acres 1959...	422,307	163,923	144,048	15,746	4,129	16,441	4,344	9,716	20,658	207,225
6 Farm area reported irrigated by organizations.....acres 1959...	354,562	132,405	117,229	13,253	1,923	15,671	4,344	8,134	15,130	178,878
7 Water users served, total.....water users 1959...	31,738	13,996	11,658	2,123	215	5,028	260	474	1,713	10,267
8 Farm irrigation water users.....water users 1959...	13,211	4,041	2,357	1,469	215	2,323	260	391	1,511	4,685
9 Residential water users.....water users 1959...	18,509	9,942	9,301	641	...	2,705	...	83	202	5,577
10 Other water users.....water users 1959...	18	13	...	13	...	...	...	...	...	5
LAND IRRIGATED BY SOURCE OF WATER, 1959										
11 Ground water sources.....acres...	64,000	15,000	5,000	4,000	6,000	2,000	1,000	2,000	6,000	38,000
12 Surface water sources.....acres...	346,000	153,000	115,000	16,000	22,000	10,000	6,000	10,000	19,000	148,000
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959										
13 Total entering conveyance systems in basin.....organizations...	148	76	5	54	17	20	3	27	11	13
14 .....acre-feet...	2,126,716	800,916	722,012	68,660	10,244	92,649	9,343	79,348	97,760	1,735,626
15 From another drainage basin.....organizations...	3	3	2	1	...	...	...	...	...	1
16 .....acre-feet...	117,095	753,682	734,856	18,826	...	...	...	...	...	52,339
17 From drainage basin number.....D. B. No. ....	...	...	(1)	3	...	...	...	...	...	7
18 From natural sources within basin.....organizations...	130	70	4	49	17	18	3	23	11	7
19 .....acre-feet...	2,009,621	47,234	2-12,844	49,834	10,244	92,649	9,343	79,348	97,760	1,683,287
20 Surface water.....organizations...	117	61	4	42	15	18	3	23	11	3
21 .....acre-feet...	1,898,310	43,985	2-12,844	47,343	9,486	92,649	9,343	79,348	97,760	1,575,225
22 Ground water.....organizations...	15	10	...	7	3	...	...	...	...	5
23 .....acre-feet...	111,311	3,249	...	2,491	758	...	...	...	...	108,062
24 From other organizations in the basin.....organizations receiving...	26	8	...	8	...	9	...	4	...	5
25 .....acre-feet...	39,430	2,546	...	2,546	...	17,837	...	740	...	18,307
26 Total leaving conveyance systems.....organizations...	148	76	5	54	17	20	3	27	11	13
27 .....acre-feet...	2,126,716	800,916	722,012	68,660	10,244	92,649	9,343	79,348	97,760	1,735,626
28 Conveyance loss in basin.....organizations...	101	54	5	39	10	16	2	18	9	4
29 .....acre-feet...	676,375	249,995	238,581	10,710	704	9,016	305	35,735	23,032	358,292
30 Conveyed to another drainage basin.....organizations...	...	...	...	...	...	1	...	...	...	1
31 .....acre-feet...	...	...	...	...	...	18,826	...	...	...	670,100
32 To drainage basin number.....D. B. No. ....	...	...	...	...	...	1-b	...	...	...	1-a
33 Delivered for use in the basin.....organizations...	148	76	5	54	17	20	3	27	11	13
34 .....acre-feet...	1,450,341	550,921	483,431	57,950	9,540	64,807	9,038	43,613	74,728	707,234
35 To farm irrigation water users.....organizations...	147	76	5	54	17	20	3	27	11	12
36 .....acre-feet...	1,432,952	545,411	478,731	57,140	9,540	61,661	9,038	43,265	74,128	699,449
37 To residential water users.....organizations...	20	10	2	8	...	5	...	2	1	3
38 .....acre-feet...	15,154	5,325	4,700	625	...	3,146	...	348	600	5,735
39 For other use.....organizations...	5	3	...	3	...	...	...	...	...	2
40 .....acre-feet...	2,235	185	...	185	...	...	...	...	...	2,050
41 Delivered to other irrigation organizations.....organizations delivering...	7	3	...	3	...	3	...	1	...	1
42 .....acre-feet...	39,430	2,546	...	2,546	...	17,837	...	740	...	18,307
43 Average delivery of irrigation water per acre irrigated as reported by organizations.....acre-feet...	4.0	4.1	4.1	4.3	5.0	3.9	2.1	5.3	4.9	3.9
NEW CAPITAL INVESTMENT, 1950-1959										
44 Expenditures for additional new works and equipment for irrigation and drainage, Jan. 1, 1950-Dec. 31, 1959.....organizations...	57	26	4	16	7	6	1	12	5	8
45 .....dollars...	191,966,077	86,917,486	62,165,263	240,154	24,512,069	142,695	24,363	36,900	46,410	104,798,223

NA Not available. ¹64,756 acre-feet from D. B. No. 1, 670,100 acre-feet from D. B. No. 2. ²Water was transferred to the basin and released to natural stream channels in excess of the quantity of surface water withdrawn by irrigation organizations. The net effect was to increase the available surface water supply in the basin or State.

IRRIGATION OF AGRICULTURAL LANDS

State Table 1.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY DRAINAGE BASINS:
CENSUSES OF 1959 AND 1950—Continued

Item (For definitions and explanations, see text)	Yakima River (I-D)				Snake River below Weiser, Idaho (I-E)		
	Total	Below Union Gap	Union Gap to Umatum	Above Umatum	Total	S Snake River direct	Grande Ronde River
	(1)	(2)	(3)	(3)	(1)	(2)	(2)
1 Total acres irrigated in Census year.....1959...	441,000	249,000	86,000	106,000	15,000	15,000	...
2 .....1949...	422,622	226,437	85,652	112,533	7,195	7,068	127
3 Irrigation organizations.....organizations.....1959...	121	8	72	43	1	1	...
4 .....1949...	137	23	93	46	2	2	...
5 Service area, 1959:							
6 Farm area reported served by organizations.....acres 1959...	(D)	(D)	83,019	97,319	(D)	(D)	...
7 Farm area reported irrigated by organizations.....acres 1959...	(D)	(D)	76,575	92,754	(D)	(D)	...
8 Water users served, total.....water users 1959...	(D)	(D)	15,740	1,609	(D)	(D)	...
9 Farm irrigation water users.....water users 1959...	(D)	(D)	4,816	1,422	(D)	(D)	...
10 Residential water users.....water users 1959...	(D)	(D)	10,813	181	(D)	(D)	...
11 Other water users.....water users 1959...	118	...	111	6	...	...	...
12 LAND IRRIGATED BY SOURCE OF WATER, 1959							
13 Ground water sources.....acres...	13,000	4,000	7,000	2,000	5,000	5,000	...
14 Surface water sources.....acres...	428,000	245,000	79,000	104,000	10,000	10,000	...
15 WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
16 Total entering conveyance systems in basin.....organizations...	119	8	71	42	1	1	...
17 .....acre-feet...	(D)	(D)	661,932	494,305	(D)	(D)	...
18 From another drainage basin.....organizations...	...	2	...	...	...	...	...
19 .....acre-feet...	...	(D)	...	...	...	...	...
20 From drainage basin number.....D. B. No....	...	2	...	...	...	...	...
21 From natural sources within basin.....organizations...	112	6	64	42	1	1	...
22 .....acre-feet...	(D)	(D)	661,932	494,305	(D)	(D)	...
23 Surface water.....organizations...	108	6	61	41	1	1	...
24 .....acre-feet...	(D)	(D)	654,402	494,190	(D)	(D)	...
25 Ground water.....organizations...	6	...	5	1	1	1	...
26 .....acre-feet...	(D)	...	7,530	115	(D)	(D)	...
27 From other organizations in the basin.....organizations receiving...	8	...	8	...	...	...	...
28 .....acre-feet...	(D)	...	22,958	...	...	...	...
29 Total leaving conveyance systems.....organizations...	119	8	71	42	1	1	...
30 .....acre-feet...	(D)	(D)	661,932	494,305	(D)	(D)	...
31 Conveyance loss in basin.....organizations...	111	6	66	41	1	1	...
32 .....acre-feet...	(D)	(D)	45,457	65,629	(D)	(D)	...
33 Conveyed to another drainage basin.....organizations...	1	1	2	...	...	...	...
34 .....acre-feet...	(D)	(D)	340,582	...	...	...	...
35 To drainage basin number.....D. B. No....	...	...	1	...	...	...	...
36 Delivered for use in the basin.....organizations...	117	7	70	42	1	1	...
37 .....acre-feet...	(D)	(D)	275,893	428,676	(D)	(D)	...
38 To farm irrigation water users.....organizations...	117	7	70	42	1	1	...
39 .....acre-feet...	(D)	(D)	246,653	422,152	(D)	(D)	...
40 To residential water users.....organizations...	15	...	14	1	1	1	...
41 .....acre-feet...	(D)	...	9,026	700	(D)	(D)	...
42 For other use.....organizations...	14	1	7	6	1	1	...
43 .....acre-feet...	(D)	(D)	20,214	5,824	(D)	(D)	...
44 Delivered to other irrigation organizations.....organizations delivering...	3	...	3	...	...	...	...
45 .....acre-feet...	22,958	...	22,958	...	...	...	...
46 Average delivery of irrigation water per acre irrigated as reported by organizations.....acre-feet...	4.6	5.0	3.2	4.6	(D)	(D)	...
47 NEW CAPITAL INVESTMENT, 1950-1959							
48 Expenditures for additional new works and equipment for irrigation and drainage, Jan. 1, 1950-Dec. 31, 1959.....organizations...	48	5	39	5	...	...	...
49 .....dollars...	(D)	(D)	1,451,791	921,575	...	...	...

D Data not shown to avoid disclosure of information for individual organizations.

State Table 2.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950

Item (For definitions and explanations, see text)	Washington, total	Columbia River below Snake River	Columbia River above Snake River excluding Yakima River	Yakima River
		(I-A)	(I-C)	(I-D)
1 Irrigation organizations, total				
2 number.....organizations 1959...	350	70	149	121
1949...	441	97	171	197
3 Area irrigated as reported by				
4 organizations.....acres 1959...	847,752	28,371	354,562	(D)
1949...	513,583	29,055	67,184	(D)
5 Farm water users served directly....water users 1959...	29,752	1,109	13,211	(D)
6 Total water conveyed.....acre-feet 1959...	4,984,480	132,111	2,166,146	(D)
TYPE OF ORGANIZATION				
7 Mutual:				
8 Unincorporated.....organizations 1959...	209	52	81	75
1949...	273	75	98	97
9 Farm area irrigated directly.....acres 1959...	50,486	8,984	10,349	30,833
10 Farm water users served				
directly.....water users 1959...	1,523	368	479	671
11 Total water conveyed.....acre-feet 1959...	280,036	37,274	52,037	187,725
12 Incorporated.....organizations 1959...	66	8	25	28
13 1949...	82	11	29	37
14 Farm area irrigated directly.....acres 1959...	56,651	12,735	10,013	27,243
15 Farm water users served				
directly.....water users 1959...	3,422	196	1,160	1,838
16 Total water conveyed.....acre-feet 1959...	383,613	60,960	114,932	153,688
17 District.....organizations 1959...	65	10	39	13
18 1949...	74	11	40	19
19 Farm area irrigated directly.....acres 1959...	274,703	6,652	66,071	193,280
20 Farm water users served				
directly.....water users 1959...	17,835	545	9,023	7,728
21 Total water conveyed.....acre-feet 1959...	1,404,850	33,877	387,157	951,122
22 U. S. Bureau of Reclamation; projects and stor-				
age systems operated by bureau.....organizations 1959...	3	...	1	2
23 1949...	3	...	1	2
24 Farm area irrigated directly.....acres 1959...	333,179	...	267,085	66,094
25 Farm water users served				
directly.....water users 1959...	3,536	...	2,491	1,045
26 Total water conveyed.....acre-feet 1959...	1,933,708	...	1,601,900	331,808
27 U. S. Bureau of Reclamation; operated				
by water users.....organizations 1959...	7	...	4	4
28 1949...	11	...	NA	NA
29 Farm area irrigated directly.....acres 1959...	169,912	...	13,750	156,162
30 Farm water users served				
directly.....water users 1959...	6,637	...	804	5,833
31 Total water conveyed.....acre-feet 1959...	860,011	...	83,199	841,568
32 U. S. Bureau of Indian Affairs.....organizations 1959...	5	...	2	3
33 1949...	2	...	1	1
34 Farm area irrigated directly.....acres 1959...	(D)	...	(D)	(D)
35 Farm water users served				
directly.....water users 1959...	(D)	...	(D)	(D)
36 Total water conveyed.....acre-feet 1959...	(D)	...	(D)	(D)
37 Commercial.....organizations 1959...	2	...	1	...
38 1949...	3	...	2	...
39 Farm area irrigated directly.....acres 1959...	(D)	...	(D)	...
40 Farm water users served				
directly.....water users 1959...	(D)	...	(D)	...
41 Total water conveyed.....acre-feet 1959...	(D)	...	(D)	...
42 State.....organizations 1959...	...	...	...	...
43 1949...	...	...	...	...
44 Farm area irrigated directly.....acres 1959...	...	...	...	...
45 Farm water users served				
directly.....water users 1959...	...	...	...	...
46 Total water conveyed.....acre-feet 1959...	...	...	...	...
47 City.....organizations 1959...	...	...	...	...
48 1949...	4	...	...	1
49 Farm area irrigated directly.....acres 1959...	...	...	...	...
50 Farm water users served				
directly.....water users 1959...	...	...	...	...
51 Total water conveyed.....acre-feet 1959...	...	...	...	...

D Data not shown to avoid disclosure of information for individual organizations.
NA Not available.

State Table 2.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Continued

Item (For definitions and explanations, see text)	Washington, total	Columbia River below Snake River	Columbia River above Snake River excluding Yakima River	Yakima River
		(I-B)	(I-C)	(I-D)
TYPE OF SERVICE, 1959				
1 All water directly from surface and				
2 ground water sources.....organizations...	312	70	121	111
3 Total water conveyed.....acre-feet...	4,897,865	132,111	2,099,024	2,598,603
4 Water delivered.....acre-feet...	3,721,298	110,197	1,422,531	2,071,653
5 To farm and residential				
6 users only.....organizations...	304	70	116	108
7 acre-feet...	3,405,213	110,197	1,343,988	1,834,111
8 To farm and residential users and other				
9 irrigation organizations.....organizations...	6	...	4	2
10 Water to farm and residential				
11 users.....acre-feet...	259,995	...	45,411	214,584
12 Water to other irrigation				
13 organizations.....acre-feet...	31,483	...	14,825	16,658
14 To other irrigation organizations				
15 only.....organizations...	2	...	1	1
16 acre-feet...	24,607	...	18,307	6,300
17 Part of water from other				
18 organizations.....organizations...	12	...	11	1
19 Total water conveyed.....acre-feet...	40,680	...	38,145	2,535
20 From surface and ground water				
21 sources.....acre-feet...	8,729	...	12,194	1,3465
22 From other irrigation				
23 organizations.....acre-feet...	31,951	...	25,951	6,000
24 Water delivered.....acre-feet...	38,215	...	36,280	1,935
25 To farm and residential				
26 users only.....organizations...	11	...	10	1
27 acre-feet...	22,267	...	20,332	1,935
28 To farm and residential users and other				
29 irrigation organizations.....organizations...	1	...	1	...
30 Water to farm and residential				
31 users.....acre-feet...	9,900	...	9,900	...
32 Water to other irrigation				
33 organizations.....acre-feet...	6,048	...	6,048	...
34 To other irrigation organizations				
35 only.....organizations...	...	...	...	...
36 acre-feet...	...	...	...	...
37 All of water from other				
38 organizations.....organizations...	23	...	16	7
39 Total water conveyed.....acre-feet...	45,935	...	28,977	(D)
40 Water delivered.....acre-feet...	38,015	...	28,725	(D)
41 To farm and residential				
42 users only.....organizations...	22	...	15	7
43 acre-feet...	37,260	...	27,970	(D)
44 To farm and residential users and other				
45 irrigation organizations.....organizations...	1	...	1	...
46 Water to farm residential				
47 users.....acre-feet...	505	...	505	...
48 Water to other irrigation				
49 organizations.....acre-feet...	250	...	250	...
50 To other irrigation organizations				
51 only.....organizations...	...	...	...	...
52 acre-feet...	...	...	...	...
53 No water conveyed.....organizations...	3	...	1	2
WATER FROM OTHER SOURCES				
54 Organizations reporting no water from				
55 other sources used on land served				
56 by the organization.....organizations...	301	64	130	98
57 acre served...	840,631	17,957	408,059	412,281
58 acre irrigated...	746,002	16,768	342,839	378,946
59 Water delivered to farms.....acre-feet...	3,291,955	70,811	1,401,338	1,761,787
60 acre-feet per acre...	4.4	4.2	4.1	4.6
61 Organizations reporting water from other				
62 sources used on land served by the				
63 organization.....organizations...	44	6	17	20
64 acre served...	112,501	16,103	14,248	(D)
65 acre irrigated...	105,671	15,524	11,723	(D)
66 Water delivered to farms.....acre-feet...	421,033	54,292	31,014	(D)
67 acre-feet per acre...	4.0	3.5	2.6	(D)

¹Water was transferred to the basin and released to natural stream channels in excess of the quantity of surface water withdrawn by irrigation organizations. The net effect was to increase the available surface water supply in the basin or State.

State Table 2.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Continued

Item (For definitions and explanations, see text)	Washington, total	Columbia River below Snake River	Columbia River above Snake River excluding Yakima River	Yakima River
		(I-B)	(I-C)	(I-D)
		WATER DELIVERED PER ACRE		
Organizations reporting no water from other sources used on same land:				
0.1 to 0.9 acre-feet per acre.....Organizations...	4	...	...	4
acres irrigated...	1,500	...	...	1,500
1.0 to 1.9 acre-feet per acre.....Organizations...	16	2	7	13
acres irrigated...	12,689	350	4,974	7,365
2.0 to 2.9 acre-feet per acre.....Organizations...	39	11	14	13
acres irrigated...	19,052	2,472	1,316	13,004
3.0 to 3.9 acre-feet per acre.....Organizations...	62	16	32	14
acres irrigated...	142,687	4,121	25,466	113,100
4.0 to 4.9 acre-feet per acre.....Organizations...	71	25	27	19
acres irrigated...	397,735	5,880	290,482	107,264
5.0 to 5.9 acre-feet per acre.....Organizations...	34	3	12	15
acres irrigated...	13,426	1,388	3,949	3,989
6.0 to 6.9 acre-feet per acre.....Organizations...	17	1	10	6
acres irrigated...	137,740	220	10,755	126,765
7.0 to 7.9 acre-feet per acre.....Organizations...	26	3	13	(D)
acres irrigated...	6,874	1,634	1,539	1,711
8.0 to 9.9 acre-feet per acre.....Organizations...	31	1	15	(D)
acres irrigated...	13,999	713	4,158	(D)
10.0 or more acre-feet per acre.....Organizations...	1	...	...	(D)
acres irrigated...	300	...	...	(D)
SIZE OF ORGANIZATION				
Size of organization (number of farm irrigation water users served directly):				
None.....Organizations...	5	...	2	3
1 to 3.....Organizations...	105	13	49	43
water users...	250	30	115	105
4 to 9.....Organizations...	84	28	25	25
water users...	478	173	166	134
10 to 29.....Organizations...	70	21	27	20
water users...	1,077	341	411	295
30 to 99.....Organizations...	47	5	11	9
water users...	2,452	261	1,258	626
100 to 299.....Organizations...	18	...	7	9
water users...	3,221	...	1,509	1,292
300 to 999.....Organizations...	13	1	6	(D)
water users...	6,683	350	2,900	(D)
1,000 or more.....Organizations...	8	...	4	(D)
water users...	15,637	...	6,852	(D)
Size of organization (acre-feet of water delivered directly to farms):				
None.....Organizations...	5	...	2	3
1 to 299 acre-feet.....Organizations...	93	23	53	17
acre-feet...	14,598	2,935	8,583	3,080
300 to 999 acre-feet.....Organizations...	99	23	44	32
acre-feet...	52,476	12,049	23,562	16,865
1,000 to 2,999 acre-feet.....Organizations...	73	15	24	34
acre-feet...	132,376	26,378	46,580	59,418
3,000 to 9,999 acre-feet.....Organizations...	46	6	15	20
acre-feet...	258,275	31,837	85,571	113,051
10,000 to 29,999 acre-feet.....Organizations...	23	3	6	6
acre-feet...	337,447	51,904	116,299	92,321
30,000 to 99,999 acre-feet.....Organizations...	6	...	2	(D)
acre-feet...	286,472	...	92,397	(D)
100,000 or more acre-feet.....Organizations...	5	...	1	(D)
acre-feet...	2,631,344	...	1,060,000	(D)
Size of organization (acre-feet of water conveyed):				
None.....Organizations...	3	...	1	2
1 to 299 acre-feet.....Organizations...	78	21	44	13
acre-feet...	12,197	2,657	7,082	2,458
300 to 999 acre-feet.....Organizations...	101	24	47	30
acre-feet...	54,798	12,617	24,564	17,617
1,000 to 2,999 acre-feet.....Organizations...	69	14	23	32
acre-feet...	124,221	22,953	39,439	61,829
3,000 to 9,999 acre-feet.....Organizations...	53	7	19	23
acre-feet...	277,126	34,663	102,844	114,611
10,000 to 29,999 acre-feet.....Organizations...	31	4	9	11
acre-feet...	478,451	72,395	148,319	149,862
30,000 to 99,999 acre-feet.....Organizations...	10	...	5	(D)
acre-feet...	544,333	...	277,526	(D)
100,000 or more acre-feet.....Organizations...	5	...	1	(D)
acre-feet...	3,536,669	...	1,601,900	(D)

State Table 3.—LAND IRRIGATED BY SOURCE OF WATER, BY DRAINAGE BASINS: CENSUS OF 1959

	Item (For definitions and explanations, see text)	Washington, total	Columbia River below Snake River	Columbia River above Snake River excluding Yakima River	Yakima River
			(I-B)	(I-C)	(I-D)
1	Total acres irrigated.....farms reporting...	19,292	1,417	7,046	7,32
2	acres...	1,006,969	69,766	410,235	441,13
3	Acres irrigated by sprinklers.....farms reporting...	10,481	1,098	4,365	1,87
4	acres...	342,665	46,380	168,645	48,84
5	Sprinklers only.....farms reporting...	7,991	966	3,100	86
6	acres...	251,603	39,041	116,447	19,73
	LAND IRRIGATED, BY SOURCE OF WATER TO INDIVIDUAL FARMS, 1959				
7	Ground water sources on farm.....farms reporting...	3,911	670	1,299	44
8	acres...	118,157	22,603	48,375	13,34
9	Ground water sources on farm only.....farms reporting...	3,020	529	983	16
10	acres...	83,158	14,556	34,507	4,40
11	Surface sources on farm.....farms reporting...	3,760	536	1,203	48
12	acres...	143,671	25,369	46,937	30,79
13	Surface sources on farm only.....farms reporting...	3,039	442	979	24
14	acres...	106,756	17,805	37,181	16,54
15	Irrigation organization sources.....farms reporting...	12,900	373	4,987	6,89
16	acres...	745,141	21,794	314,923	396,99
17	Irrigation organization sources only.....farms reporting...	12,004	294	4,648	6,46
18	acres...	683,565	16,379	296,373	360,38
19	Both farm ground water sources and surface sources.....farms reporting...	332	72	96	2
20	acres...	27,551	9,886	7,905	1,51
21	Both irrigation organization and farm ground water or farm surface sources.....farms reporting...	897	80	340	42
22	acres...	105,939	11,140	34,269	58,29

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950

Item (For definitions and explanations, see text)	Washington, total							
	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other	
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users		
Irrigation organizations.....organizations 1959...	350	209	66	65		7	7	
1949...	441	273	82	74	3	11	9	
Service area, 1959:								
Area served, as reported								
by organizations.....acres...	948,932	55,788	61,977	310,256	380,366	189,078	140,545	
Area irrigated, as reported								
by organizations.....acres...	847,752	50,486	56,651	274,703	333,179	169,912	132,733	
Water users served, 1959, total.....water users...	63,429	1,875	11,585	39,385	3,541	13,790	7,043	
Farm irrigation water users.....water users...	29,752	1,523	3,422	17,835	3,536	6,637	3,436	
Residential water users.....water users...	33,439	346	8,147	21,439		7,152	3,607	
Other water users.....water users...	138	6	16	111	5	1	...	
TYPE OF SERVICE, 1959								
All water directly from surface and ground								
water sources.....organizations...	312	197	53	53	2	6	7	
Total water conveyed.....acre-feet...	4,897,865	276,308	356,826	1,348,790	1,933,708	860,011	982,273	
Water delivered.....acre-feet...	3,721,298	233,540	269,513	1,111,366	1,276,492	709,529	830,387	
To farm and residential users								
only.....organizations...	304	195	50	51	1	6	7	
acre-feet...	3,405,213	225,900	235,416	1,053,510	1,060,000	709,529	830,387	
To farm and residential users and other								
irrigation organizations.....organizations...	6	1	2	2	1	...	...
Water to farm and residential								
users.....acre-feet...	259,995	600	885	44,676	213,834	...	...
Water to other irrigation								
organizations.....acre-feet...	31,483	740	14,905	13,180	2,658	...	...
To other irrigation organizations								
only.....organizations...	2	1	1	...	...	...	...
acre-feet...	24,607	6,300	18,307	...	...	...	...
Part of water from other								
organizations.....organizations...	12	5	4	3	...	...	...
Total water conveyed.....acre-feet...	40,680	2,070	10,634	27,976	...	...	...
From surface and ground water								
sources.....acre-feet...	8,729	1,185	1,556	10,470	...	...	...
From other irrigation organizations.....acre-feet...	31,951	2,255	12,190	17,506	...	...	...
Water delivered.....acre-feet...	38,215	1,863	8,638	27,714	...	...	...
To farm and residential users								
only.....organizations...	11	5	4	2	...	...	...
acre-feet...	22,267	1,863	8,638	11,766	...	...	...
To farm and residential users and other								
irrigation organizations.....organizations...	1	...	...	...	...	...	...
Water to farm and residential								
users.....acre-feet...	9,900	...	...	9,900	...	...	...
Water to other irrigation								
organizations.....acre-feet...	6,048	...	...	6,048	...	...	...
To other irrigation organizations								
only.....organizations...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
All of water from other organizations.....organizations...	23	7	9	7	...	...	...
Total water conveyed.....acre-feet...	45,935	1,658	16,153	28,124	...	...	...
Water delivered.....acre-feet...	38,015	1,600	8,822	27,593	...	...	...
To farm and residential users								
only.....organizations...	22	7	8	7	...	...	...
acre-feet...	37,260	1,600	8,067	27,593	...	...	...
To farm and residential users and other								
irrigation organizations.....organizations...	1	...	1	...	...	...	...
Water to farm and residential								
users.....acre-feet...	505	...	505	...	...	...	...
Water to other irrigation								
organizations.....acre-feet...	250	...	250	...	...	...	...
To other irrigation organizations								
only.....organizations...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
No water conveyed.....organizations...	3	...	...	2	1	...	...
WATER FROM OTHER SOURCES								
Organizations reporting no water from other								
sources used on the land served by the								
organization.....organizations...	301	185	54	53	2	5	7	
acres served.....	840,631	36,815	47,530	235,375	380,366	126,640	140,545	
acres irrigated.....	746,002	32,803	42,547	204,740	333,179	111,772	132,733	
water delivered to farms (acre-feet)...	3,291,955	152,369	200,517	843,348	1,273,834	458,229	821,887	
acre-feet per acre...	4.4	4.6	4.7	4.1	3.8	4.1	6.8	
Organizations reporting water from other								
sources used on land served by the								
organization.....organizations...	44	23	11	10	...	2	...	
acres served.....	112,501	18,973	14,447	79,081	...	62,438	...	
acres irrigated.....	105,671	17,683	14,104	73,884	...	58,140	...	
water delivered to farms (acre-feet)...	421,033	77,353	44,242	299,438	...	246,400	...	
acre-feet per acre...	4.0	4.4	3.1	4.0	...	4.2	...	
NEW CAPITAL INVESTMENT, 1950-1959								
Expenditures for additional new works and								
equipment for irrigation and drainage,								
January 1, 1950-December 31, 1959.....organizations...	117	46	30	36	3	7	2	
By U. S. B. R. ....dollars...	196,054,785	...	...	8,576,705	187,480,080	8,574,705	...
By water users organizations.....dollars...	4,713,569	148,634	753,763	1,534,940	...	815,450	2,276,232	
See footnote at end of table.								

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

Item (For definitions and explanations, see text)	Washington, total						
	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users	
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
Total entering conveyance systems.....organizations... acre-feet...	347 4,922,092	209 276,123	66 355,270	63 1,374,718	2 1,933,708	7 860,011	7 982,273
From another drainage basin.....organizations... acre-feet...	3 67,703	... ...	1 36,841	2 30,862	......	......	......
From drainage basin.....D. B. No.....	...	...	...	...	...	...	...
From sources within basin.....organizations... acre-feet...	322 4,854,389	202 276,123	56 318,429	55 1,343,856	2 1,933,708	7 860,011	7 982,273
Surface water.....organizations... acre-feet...	303 4,733,940	190 270,224	53 304,632	51 1,331,013	2 1,846,108	9 860,011	7 981,963
Ground water.....organizations... acre-feet...	27 120,449	16 5,899	4 13,797	5 12,843	1 87,600	1 ...	1 310
From other organizations in the basin.....organizations receiving... acre-feet...	34 62,388	12 3,913	13 28,343	9 30,132	......	......	......
Total leaving conveyance systems.....organizations... acre-feet...	347 4,922,092	209 272,996	66 350,151	63 1,385,622	2 1,931,050	7 860,011	7 982,273
Conveyance loss in basin.....organizations... acre-feet...	261 1,153,487	153 37,162	60 74,475	41 233,998	2 656,916	6 150,139	5 151,536
Conveyed to another drainage basin.....organizations... acre-feet...	1 4,364	... ...	... ...	1 4,364	......	......	......
To drainage basin number.....D. B. No.....	...	...	...	...	...	...	...
Delivered for use in the basin.....organizations... acre-feet...	346 3,764,241	208 235,834	66 275,676	63 1,147,860	2 1,274,134	7 709,872	7 830,737
To farm irrigation water users.....organizations... acre-feet...	345 3,697,304	208 229,722	65 244,759	63 1,127,102	2 1,273,834	7 704,629	7 821,887
To domestic water users.....organizations... acre-feet...	45 37,836	4 241	20 8,752	20 20,343	... ...	3 4,900	1 8,500
For other use.....organizations... acre-feet...	21 29,101	8 5,871	2 22,165	2 415	1 300	1 343	1 350
Delivered to other irrigation organizations.....organizations delivering... acre-feet...	10 62,388	2 7,040	4 33,462	3 19,228	1 2,658	......	......
SIZE OF ORGANIZATION, 1959							
Size of organization (number of farm irrigation water users):							
None.....organizations...	5	1	1	2	1	......	......
1 to 3 water users.....organizations...	105	102	3	...	...	......	......
4 to 9 water users.....organizations...	84	73	7	3	...	......	......
10 to 29 water users.....organizations...	70	26	27	16	...	......	......
30 to 99 water users.....organizations...	47	5	20	19	...	......	......
100 to 299 water users.....organizations...	18	2	6	10	...	......	......
300 to 999 water users.....organizations...	13	...	2	...	...	......	......
1,000 or more water users.....organizations...	8	...	...	5	2	......	......
Size of organization (acre-feet of water delivered directly to farms):							
None.....organizations...	5	1	1	2	1	......	......
1 to 299 acre-feet.....organizations...	93	83	6	4	...	......	......
300 to 999 acre-feet.....organizations...	99	73	15	10	...	......	......
1,000 to 2,999 acre-feet.....organizations...	73	40	16	...	...	......	......
3,000 to 9,999 acre-feet.....organizations...	46	9	14	...	...	......	......
10,000 to 29,999 acre-feet.....organizations...	23	2	7	12	...	......	......
30,000 to 99,999 acre-feet.....organizations...	6	1	...	5	...	......	......
100,000 or more acre-feet.....organizations...	5	...	...	2	2	......	......
Size of organization (acre-feet of water conveyed):							
None.....organizations...	3	...	...	2	1	......	......
1 to 299 acre-feet.....organizations...	78	73	12	3	...	......	......
300 to 999 acre-feet.....organizations...	101	78	13	11	...	......	......
1,000 to 2,999 acre-feet.....organizations...	69	40	14	14	...	......	......
3,000 to 9,999 acre-feet.....organizations...	53	14	22	15	...	......	......
10,000 to 29,999 acre-feet.....organizations...	31	2	14	12	...	......	......
30,000 to 99,999 acre-feet.....organizations...	10	2	1	7	...	......	......
100,000 or more acre-feet.....organizations...	5	...	...	2	2	......	......

²Water was transferred to the basin and released to natural stream channels in excess of the quantity of surface water withdrawn by irrigation organizations. The net effect was to increase the available surface water in the basin or State.

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

Item (For definitions and explanations, see text)	Columbia River below Snake River (I-B)						
	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users	
Irrigation organizations.....organizations 1959...	70	52	8	10	...	...	...
1949.....	97	75	11	11	...	...	...
Service area, 1959:							
Area served, as reported							
by organizations.....acres...	29,860	9,411	13,215	7,234	...	...	...
Area irrigated, as reported							
by organizations.....acres...	28,371	8,984	12,735	6,652	...	...	...
Water users served, 1959, total.....water users...	1,422	368	201	853	...	...	...
Farm irrigation water users.....water users...	1,109	368	196	545	...	...	...
Residential water users.....water users...	313	...	5	308	...	...	...
Other water users.....water users...	...	...	...	...	...	...	...
TYPE OF SERVICE, 1959							
All water directly from surface and ground							
water sources.....organizations...	70	52	8	10	...	...	...
Total water conveyed.....acre-feet...	132,111	37,274	60,960	33,877	...	...	...
Water delivered.....acre-feet...	110,197	35,989	46,940	27,268	...	...	...
To farm and residential users							
only.....organizations...	70	52	8	10	...	...	...
acre-feet.....	110,197	35,989	46,940	27,268	...	...	...
To farm and residential users and other							
irrigation organizations.....organizations...	...	...	...	...	...	...	...
Water to farm and residential							
users.....acre-feet...	...	...	...	...	...	...	...
Water to other irrigation							
organizations.....acre-feet...	...	...	...	...	...	...	...
To other irrigation organizations							
only.....organizations...	...	...	...	...	...	...	...
acre-feet.....	...	...	...	...	...	...	...
Part of water from other							
organizations.....organizations...	...	...	...	...	...	...	...
Total water conveyed.....acre-feet...	...	...	...	...	...	...	...
From surface and ground water							
sources.....acre-feet...	...	...	...	...	...	...	...
From other irrigation organizations.....acre-feet...	...	...	...	...	...	...	...
Water delivered.....acre-feet...	...	...	...	...	...	...	...
To farm and residential users							
only.....organizations...	...	...	...	...	...	...	...
acre-feet.....	...	...	...	...	...	...	...
To farm and residential users and other							
irrigation organizations.....organizations...	...	...	...	...	...	...	...
Water to farm and residential							
users.....acre-feet...	...	...	...	...	...	...	...
Water to other irrigation							
organizations.....acre-feet...	...	...	...	...	...	...	...
To other irrigation organizations							
only.....organizations...	...	...	...	...	...	...	...
acre-feet.....	...	...	...	...	...	...	...
All of water from other organizations.....organizations...	...	...	...	...	...	...	...
Total water conveyed.....acre-feet...	...	...	...	...	...	...	...
Water delivered.....acre-feet...	...	...	...	...	...	...	...
To farm and residential users							
only.....organizations...	...	...	...	...	...	...	...
acre-feet.....	...	...	...	...	...	...	...
To farm and residential users and other							
irrigation organizations.....organizations...	...	...	...	...	...	...	...
Water to farm and residential							
users.....acre-feet...	...	...	...	...	...	...	...
Water to other irrigation							
organizations.....acre-feet...	...	...	...	...	...	...	...
To other irrigation organizations							
only.....organizations...	...	...	...	...	...	...	...
acre-feet.....	...	...	...	...	...	...	...
No water conveyed.....organizations...	...	...	...	...	...	...	...
WATER FROM OTHER SOURCES							
Organizations reporting no water from other							
sources used on the land served by the							
organization.....organizations...	64	50	6	8	...	...	...
acres served.....	17,927	8,917	5,015	4,025	...	...	...
water delivered to farms (acre-feet)...	16,768	8,490	4,535	3,743	...	...	...
acre-feet per acre...	70,811	35,147	20,711	14,953	...	...	...
Organizations reporting water from other							
sources used on land served by the							
organization.....organizations...	6	2	2	2	...	...	...
acres served.....	16,103	494	8,200	7,409	...	...	...
water delivered to farms (acre-feet)...	15,294	424	6,200	6,830	...	...	...
acre-feet per acre...	54,292	842	26,220	27,230	...	...	...
NEW CAPITAL INVESTMENT, 1950-1959							
Expenditures for additional new works and							
equipment for irrigation and drainage							
January 1, 1950-December 31, 1959.....organizations...	9	2	1	6	...	...	...
By U. S. B. R.....dollars...	...	...	...	...	...	...	...
By water users organizations.....dollars...	121,541	9,360	28,300	84,181	...	...	...

IRRIGATION OF AGRICULTURAL LANDS

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

Item (For definitions and explanations, see text)	Columbia River below Snake River (I-8)						
	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users	
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
Total entering conveyance systems.....organizations...	70	52	8	10	...	...	...
acre-feet...	132,111	37,274	60,960	33,877	...	...	...
From another drainage basin.....organizations...	1	...	...	1	...	...	...
acre-feet...	15,364	...	...	15,364	...	...	...
From drainage basin.....D. B. No....	...	...	...	...	...	...	...
From sources within basin.....organizations...	69	52	8	9	...	...	...
acre-feet...	116,747	37,274	60,960	18,513	...	...	...
Surface water.....organizations...	67	51	8	8	...	...	...
acre-feet...	115,564	36,587	60,960	18,017	...	...	...
Ground water.....organizations...	5	4	...	1	...	...	...
acre-feet...	1,183	687	...	496	...	...	...
From other organizations in the basin.....organizations receiving...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
Total leaving conveyance systems.....organizations...	70	52	8	10	...	...	...
acre-feet...	132,111	37,274	60,960	33,877	...	...	...
Conveyance loss in basin.....organizations...	40	27	7	6	...	...	...
acre-feet...	17,550	1,285	14,020	2,245	...	...	...
Conveyed to another drainage basin.....organizations...	1	...	...	1	...	...	...
acre-feet...	4,364	...	...	4,364	...	...	...
To drainage basin number.....D. B. No....	...	...	...	...	...	...	...
Delivered for use in the basin.....organizations...	70	52	8	10	...	...	...
acre-feet...	110,197	35,989	46,940	27,268	...	...	...
To farm irrigation water users.....organizations...	70	52	8	10	...	...	...
acre-feet...	109,419	35,989	46,931	26,499	...	...	...
To domestic water users.....organizations...	4	...	1	3	...	...	...
acre-feet...	778	...	9	769	...	...	...
For other use.....organizations...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
Delivered to other irrigation organizations..... organizations delivering...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
SIZE OF ORGANIZATION, 1959							
Size of organization (number of farm irrigation water users):							
None.....organizations...	...	...	...	...	...	...	...
1 to 3 water users.....organizations...	13	13	...	...	...	...	...
4 to 9 water users.....organizations...	30	28	...	2	...	...	...
10 to 29 water users.....organizations...	21	10	6	5	...	...	...
30 to 99 water users.....organizations...	5	1	2	2	...	...	...
100 to 299 water users.....organizations...	...	...	...	...	...	...	...
300 to 999 water users.....organizations...	1	...	...	1	...	...	...
1,000 or more water users.....organizations...	...	...	...	...	...	...	...
Size of organization (acre-feet of water delivered directly to farms):							
None.....organizations...	...	...	...	1	...	...	...
1 to 299 acre-feet.....organizations...	23	22	...	...	...	...	...
300 to 999 acre-feet.....organizations...	23	20	...	3	...	...	...
1,000 to 2,999 acre-feet.....organizations...	15	8	3	4	...	...	...
3,000 to 9,999 acre-feet.....organizations...	6	2	3	1	...	...	...
10,000 to 29,999 acre-feet.....organizations...	3	...	2	1	...	...	...
30,000 to 99,999 acre-feet.....organizations...	...	...	...	...	...	...	...
100,000 or more acre-feet.....organizations...	...	...	...	...	...	...	...
Size of organization (acre-feet of water conveyed):							
None.....organizations...	...	...	...	...	...	...	...
1 to 299 acre-feet.....organizations...	21	21	...	4	...	...	...
300 to 999 acre-feet.....organizations...	24	20	...	3	...	...	...
1,000 to 2,999 acre-feet.....organizations...	14	9	2	3	...	...	...
3,000 to 9,999 acre-feet.....organizations...	7	2	3	2	...	...	...
10,000 to 29,999 acre-feet.....organizations...	4	...	3	1	...	...	...
30,000 to 99,999 acre-feet.....organizations...	...	...	...	...	...	...	...
100,000 or more acre-feet.....organizations...	...	...	...	...	...	...	...

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

Item (For definitions and explanations, see text)	Columbia River above Snake River excluding Yakima River (1-C)						
	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users	
Irrigation organizations.....organizations 1959...	149	81	25	39	1	4	3
1949...	171	98	29	40	1	...	3
Service area, 1959:							
Area served, as reported							
by organizations.....acres...	422,307	13,720	12,376	86,553	307,855	27,069	1,803
Area irrigated, as reported							
by organizations.....acres...	354,562	10,349	10,013	66,071	267,085	13,750	1,044
Water users served, 1959, total.....water users...	31,738	548	4,705	23,931	2,496	7,331	58
Farm irrigation water users.....water users...	13,211	479	1,160	9,023	2,491	804	58
Residential water users.....water users...	18,509	69	3,545	14,895	...	6,527	...
Other water users.....water users...	18	...	...	13	5	...	...
TYPE OF SERVICE, 1959							
All water directly from surface and ground							
water sources.....organizations...	121	69	19	29	1	4	3
Total water conveyed.....acre-feet...	2,099,024	48,309	104,980	333,715	1,601,900	83,199	10,120
Water delivered.....acre-feet...	1,422,531	39,376	64,800	251,938	1,060,000	57,649	6,417
To farm and residential users							
only.....organizations...	116	68	17	27	1	4	3
1,343,988	38,056	45,453	194,082	1,060,000	57,649	6,417	
To farm and residential users and other							
irrigation organizations.....organizations...	4	1	1	2	...	...	...
Water to farm and residential							
users.....acre-feet...	45,411	600	135	44,676	...	...	...
Water to other irrigation							
organizations.....acre-feet...	14,825	740	905	13,180	...	...	...
To other irrigation organizations							
only.....organizations...	1	...	1	...	...	...	...
acre-feet...	18,307	...	18,307	...	...	...	...
Part of water from other							
organizations.....organizations...	11	5	3	3	...	...	...
Total water conveyed.....acre-feet...	38,145	2,070	8,099	27,976	...	...	...
From surface and ground water							
sources.....acre-feet...	12,194	1,185	1,909	10,470	...	...	...
From other irrigation organizations.....acre-feet...	25,951	2,255	6,190	17,506	...	...	...
Water delivered.....acre-feet...	36,280	1,863	6,703	27,714	...	...	...
To farm and residential users							
only.....organizations...	10	5	3	2	...	...	...
acre-feet...	20,332	1,863	6,703	11,766	...	...	...
To farm and residential users and other							
irrigation organizations.....organizations...	1	...	...	1	...	...	...
Water to farm and residential							
users.....acre-feet...	9,900	...	...	9,900	...	...	...
Water to other irrigation							
organizations.....acre-feet...	6,048	...	...	6,048	...	...	...
To other irrigation organizations							
only.....organizations...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
All of water from other organizations.....organizations...	16	7	3	6	...	...	...
Total water conveyed.....acre-feet...	28,977	1,658	1,853	25,466	...	...	...
Water delivered.....acre-feet...	28,725	1,600	1,659	25,466	...	...	...
To farm and residential users							
only.....organizations...	15	7	2	6	...	...	...
acre-feet...	27,970	1,600	904	25,466	...	...	...
To farm and residential users and other							
irrigation organizations.....organizations...	1	...	...	...	...	...	...
Water to farm and residential							
users.....acre-feet...	505	...	505	...	...	...	...
Water to other irrigation							
organizations.....acre-feet...	250	...	250	...	...	...	...
To other irrigation organizations							
only.....organizations...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
No water conveyed.....organizations...	1	...	...	1	...	...	...
WATER FROM OTHER SOURCES							
Organizations reporting no water from other							
sources used on the land served by the							
organization.....organizations...	130	74	20	32	1	3	3
408,059	12,161	10,559	75,681	307,855	22,031	1,803	
acres irrigated...	342,839	9,950	8,203	56,557	267,085	9,750	1,044
water delivered to farms (acre-feet)...	1,401,938	40,521	44,755	250,245	1,060,000	42,949	6,417
By water users organizations.....acre-feet per acre...	4.1	4.1	5.5	4.4	4.0	4.4	6.1
Organizations reporting water from other							
sources used on land served by the							
organization.....organizations...	17	7	4	6	...	...	...
14,248	1,559	1,817	10,872	...	5,038	...	...
acres irrigated...	11,723	399	1,810	9,514	...	4,000	...
water delivered to farms (acre-feet)...	31,014	1,340	4,616	25,058	...	11,400	...
By water users organizations.....acre-feet per acre...	2.6	3.3	2.5	2.6	...	2.8	...
NEW CAPITAL INVESTMENT, 1950-1959							
Expenditures for additional new works and							
equipment for irrigation and drainage,							
January 1, 1950-December 31, 1959.....organizations...	57	23	12	20	1	4	1
By U. S. B. R.....dollars...	5,103,572	...	...	5,103,572	...	57,103,662	...
By water users organizations.....dollars...	186,862,505	93,399	567,537	675,377	185,500,000	105,265	26,232

See footnote at end of table.

IRRIGATION OF AGRICULTURAL LANDS

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

Item (For definitions and explanations, see text)	Columbia River above Snake River excluding Yakima River (I-C)						
	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users	
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
Total entering conveyance systems.....organizations.....	148	81	25	38	1	4	3
acre-feet.....	2,126,716	48,124	106,889	359,683	1,601,900	83,199	10,120
From another drainage basin.....organizations.....	3	...	1	2	...	1	...
acre-feet.....	117,095	...	36,841	80,254	...	64,756	...
From drainage basin.....D. B. No.....	...	...	...	...	...	...	...
From sources within basin.....organizations.....	130	74	21	31	1	3	3
acre-feet.....	2,009,621	48,124	70,048	279,429	1,601,900	18,443	10,120
Surface water.....organizations.....	117	67	18	26	1	3	3
acre-feet.....	1,896,310	46,123	58,651	269,116	1,514,300	18,443	10,120
Ground water.....organizations.....	15	8	3	3	1	...	...
acre-feet.....	111,311	2,001	11,397	10,313	87,600	...	...
From other organizations in the basin.....organizations receiving.....	26	12	6	8	...	...	...
acre-feet.....	39,430	3,913	8,043	27,474	...	...	...
Total leaving conveyance systems.....organizations.....	148	81	25	38	1	4	3
acre-feet.....	2,126,716	51,297	95,470	367,929	1,601,900	83,199	10,120
Conveyance loss in basin.....organizations.....	101	55	21	21	1	2	3
acre-feet.....	676,375	9,183	39,922	81,967	541,600	25,550	3,703
Conveyed to another drainage basin.....organizations.....	...	...	...	...	...	...	...
acre-feet.....	...	...	...	...	...	...	...
To drainage basin number.....D. B. No.....	...	...	...	...	...	...	...
Delivered for use in the basin.....organizations.....	148	81	25	38	1	4	3
acre-feet.....	1,450,341	42,114	55,548	285,962	1,060,300	57,649	6,417
To farm irrigation water users.....organizations.....	147	81	24	38	1	4	3
acre-feet.....	1,432,952	41,861	49,371	275,303	1,060,000	54,349	6,417
To domestic water users.....organizations.....	20	3	7	10	...	2	...
acre-feet.....	15,134	238	4,329	10,587	...	3,300	...
For other use.....organizations.....	5	2	1	1	...	...	...
acre-feet.....	2,235	15	1,848	72	300	...	...
Delivered to other irrigation organizations.....organizations delivering.....	7	1	3	3	...	...	...
acre-feet.....	39,430	740	19,462	19,228	...	...	...
SIZE OF ORGANIZATION, 1959							
Size of organization (number of farm irrigation water users):							
None.....organizations.....	2	...	1	1	...	...	...
1 to 3 water users.....organizations.....	49	48	1	...	...	...	...
4 to 9 water users.....organizations.....	28	22	4	1	...	...	1
10 to 29 water users.....organizations.....	27	8	9	9	...	...	1
30 to 99 water users.....organizations.....	26	3	8	14	...	2	1
100 to 299 water users.....organizations.....	7	...	1	6	...	...	...
300 to 999 water users.....organizations.....	6	...	1	5	...	2	...
1,000 or more water users.....organizations.....	4	...	...	3	1	...	...
Size of organization (acre-feet of water delivered directly to farms):							
None.....organizations.....	2	...	1	1	...	...	...
1 to 299 acre-feet.....organizations.....	53	47	3	3	...	...	...
300 to 999 acre-feet.....organizations.....	44	27	9	7	...	2	1
1,000 to 2,999 acre-feet.....organizations.....	24	6	6	11	...	...	1
3,000 to 9,999 acre-feet.....organizations.....	15	...	1	8	...	...	...
10,000 to 29,999 acre-feet.....organizations.....	8	1	...	7	...	1	...
30,000 to 99,999 acre-feet.....organizations.....	2	...	...	2	...	1	...
100,000 or more acre-feet.....organizations.....	1	...	...	...	1	...	...
Size of organization (acre-feet of water conveyed):							
None.....organizations.....	1	...	...	1	...	...	...
1 to 299 acre-feet.....organizations.....	44	40	2	2	...	...	...
300 to 999 acre-feet.....organizations.....	47	31	9	7	...	2	...
1,000 to 2,999 acre-feet.....organizations.....	23	8	4	10	...	2	1
3,000 to 9,999 acre-feet.....organizations.....	19	1	7	9	...	2	...
10,000 to 29,999 acre-feet.....organizations.....	9	1	2	6	...	1	...
30,000 to 99,999 acre-feet.....organizations.....	5	...	1	4	...	...	...
100,000 or more acre-feet.....organizations.....	1	...	...	...	1	...	...

¹Water was transferred to the basin and released to natural stream channels in excess of the quantity of surface water withdrawn by irrigation organizations. The net effect was to increase the available surface water supply in the basin or State.

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

Item (For definitions and explanations, see text)	Yakima River (I-D)						
	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users	
Irrigation organizations.....organizations 1959...	121	75	28	13	2	4	3
1949...	157	97	37	19	2	...	2
Service area, 1959:							
Area served, as reported	(D)	32,277	(D)	203,411	72,511	162,009	136,682
by organizations.....acres...	(D)	30,833	(D)	193,280	66,094	156,162	129,629
Area irrigated, as reported	(D)	954	(D)	13,977	1,045	6,459	2,728
by organizations.....acres...	(D)	671	(D)	7,738	1,045	5,833	2,728
Water users served, 1959, total.....water users...	(D)	277	(D)	6,161	...	625	...
Farm irrigation water users.....water users...	(D)	6	(D)	98	...	1	...
Residential water users.....water users...	(D)	...	(D)	...	...	...	...
Other water users.....water users...	(D)	...	(D)	...	...	...	...
TYPE OF SERVICE, 1959							
All water directly from surface and ground							
water sources.....organizations...	111	75	21	11	1	3	3
Total water conveyed.....acre-feet...	(D)	187,725	(D)	988,464	331,808	841,568	953,753
Water delivered.....acre-feet...	(D)	155,175	(D)	781,874	216,492	651,880	810,470
To farm and residential users	108	74	20	11	...	3	3
only.....acre-feet...	(D)	148,875	(D)	781,874	...	651,880	810,470
To farm and residential users and other	2	...	1	...	1	...	...
irrigation organizations.....organizations...	(D)	...	(D)	...	213,834	...	...
Water to farm and residential	(D)	...	(D)	...	...	...	...
users.....acre-feet...	(D)	...	(D)	...	2,658	...	...
Water to other irrigation	(D)	...	(D)	...	...	...	...
organizations.....acre-feet...	(D)	...	(D)	...	...	...	...
To other irrigation organizations	1	1	...	...	...	...	...
only.....organizations...	(D)	6,300	...	...	...	...	...
Part of water from other							
organizations.....organizations...	1	...	1	...	...	...	...
Total water conveyed.....acre-feet...	(D)	...	(D)	...	...	...	...
From surface and ground water	(D)	...	(D)	...	...	...	...
sources.....acre-feet...	(D)	...	(D)	...	...	...	...
From other irrigation organizations.....acre-feet...	(D)	...	(D)	...	...	...	...
Water delivered.....acre-feet...	(D)	...	(D)	...	...	...	...
To farm and residential users	1	...	1	...	...	...	...
only.....organizations...	(D)	...	(D)	...	...	...	...
To farm and residential users and other	...	...	...	...	...	...	...
irrigation organizations.....organizations...	(D)	...	(D)	...	...	...	...
Water to farm and residential	(D)	...	(D)	...	...	...	...
users.....acre-feet...	(D)	...	(D)	...	...	...	...
Water to other irrigation	(D)	...	(D)	...	...	...	...
organizations.....acre-feet...	(D)	...	(D)	...	...	...	...
To other irrigation organizations	...	...	...	...	...	...	...
only.....organizations...	(D)	...	(D)	...	...	...	...
All of water from other organizations.....organizations...	7	...	6	...	...	...	...
Total water conveyed.....acre-feet...	(D)	...	(D)	2,658	...	...	...
Water delivered.....acre-feet...	(D)	...	(D)	2,127	...	...	...
To farm and residential users	7	...	6	1	...	...	...
only.....organizations...	(D)	...	(D)	2,127	...	...	...
To farm and residential users and other	...	...	...	...	...	...	...
irrigation organizations.....organizations...	(D)	...	(D)	...	...	...	...
Water to farm and residential	(D)	...	(D)	...	...	...	...
users.....acre-feet...	(D)	...	(D)	...	...	...	...
Water to other irrigation	(D)	...	(D)	...	...	...	...
organizations.....acre-feet...	(D)	...	(D)	...	...	...	...
To other irrigation organizations	...	...	...	...	...	...	...
only.....organizations...	(D)	...	(D)	...	...	...	...
No water conveyed.....organizations...	2	...	...	1	1	...	...
WATER FROM OTHER SOURCES							
Organizations reporting no water from other							
sources used on the land served by the	98	60	24	10	1	1	3
organization.....organizations...	(D)	15,357	(D)	161,782	72,511	84,609	136,682
acres served...	(D)	14,043	(D)	144,831	66,094	82,022	129,629
acres irrigated...	(D)	73,701	(D)	571,688	213,834	415,280	810,470
water delivered to farms (acre-feet)...	(D)	5.2	(D)	3.9	3.2	5.1	6.3
acres-foot per acre...	(D)	...	(D)	...	...	...	...
Organizations reporting water from other							
sources used on land served by the	20	14	4	2	...	1	...
organization.....organizations...	(D)	16,920	(D)	60,800	...	57,400	...
acres served...	(D)	16,790	(D)	57,540	...	54,140	...
acres irrigated...	(D)	75,171	(D)	247,150	...	235,000	...
water delivered to farms (acre-feet)...	(D)	4.5	(D)	4.3	...	4.3	...
acres-foot per acre...	(D)	...	(D)	...	...	...	...
NEW CAPITAL INVESTMENT, 1950-1959							
Expenditures for additional new works and							
equipment for irrigation and drainage,	48	20	16	9	2	4	1
January 1, 1950-December 31, 1959.....organizations...	(D)	...	(D)	2,660,693	...	2,655,593	...
By U. S. B. R.....dollars...	(D)	45,029	(D)	1,578,158	1,980,080	710,910	2,290,000
By water users organizations.....dollars...	(D)	...	(D)	...	...	...	...

See footnote at end of table.

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

Item (For definitions and explanations, see text)	Yakima River (I-D)						
	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users	
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
Total entering conveyance systems.....organizations... acre-feet...	119 (D)	75 187,725	28 (D)	12 988,464	1 331,808	4 841,568	3 953,753
From another drainage basin.....organizations... acre-feet...	...	...	...	...	...	...	...
From drainage basin.....D. B. No....	...	...	...	...	...	...	...
From sources within basin.....organizations... acre-feet...	112 (D)	75 187,725	22 (D)	11 988,464	1 331,808	4 841,568	3 953,753
Surface water.....organizations... acre-feet...	108 (D)	71 184,514	22 (D)	11 986,430	1 331,808	4 841,568	3 953,753
Ground water.....organizations... acre-feet...	6 (D)	4 3,211	1 (D)	1 2,034	...	...	...
From other organizations in the basin.....organizations receiving... acre-feet...	8 (D)	...	7 (D)	1 2,658	...	...	...
Total leaving conveyance systems.....organizations... acre-feet...	119 (D)	75 181,425	28 (D)	12 991,122	1 329,150	4 841,568	3 953,753
Conveyance loss in basin.....organizations... acre-feet...	111 (D)	71 26,694	27 (D)	11 142,022	1 115,316	4 124,589	1 143,283
Conveyed to another drainage basin....organizations... acre-feet...	1 (D)	...	...	1 64,756	...	1 64,756	...
To drainage basin number.....D. B. No....	...	...	...	...	...	...	...
Delivered for use in the basin.....organizations... acre-feet...	117 (D)	74 154,731	28 (D)	11 784,344	1 213,834	3 652,223	3 810,470
To farm irrigation water users.....organizations... acre-feet...	117 (D)	74 148,872	28 (D)	11 778,332	1 213,834	3 650,280	3 810,470
To domestic water users.....organizations... acre-feet...	15 (D)	1 5	1 (D)	9 5,669	...	1 1,600	...
For other use.....organizations... acre-feet...	14 (D)	7 5,856	6 (D)	1 343	...	1 343	...
Delivered to other irrigation organizations..... organizations delivering... acre-feet...	3 (D)	1 6,300	1 (D)	...	1 2,658	...	...
SIZE OF ORGANIZATION, 1959							
Size of organization (number of farm irrigation water users):							
None.....organizations... acre-feet...	(D)	1	(D)	2	1	...	...
1 to 3 water users.....organizations... acre-feet...	(D)	41	(D)	...	...	...	...
4 to 9 water users.....organizations... acre-feet...	(D)	22	(D)	...	...	...	...
10 to 29 water users.....organizations... acre-feet...	(D)	8	(D)	1	...	...	...
30 to 99 water users.....organizations... acre-feet...	(D)	1	(D)	2	...	...	2
100 to 299 water users.....organizations... acre-feet...	(D)	2	(D)	2	...	...	...
300 to 999 water users.....organizations... acre-feet...	(D)	...	(D)	4	...	1	...
1,000 or more water users.....organizations... acre-feet...	(D)	...	(D)	2	1	3	1
Size of organization (acre-feet of water delivered directly to farms):							
None.....organizations... acre-feet...	(D)	1	(D)	2	1	1	...
1 to 299 acre-feet.....organizations... acre-feet...	(D)	14	(D)	...	...	...	...
300 to 999 acre-feet.....organizations... acre-feet...	(D)	26	(D)	...	...	...	...
1,000 to 2,999 acre-feet.....organizations... acre-feet...	(D)	26	(D)	1	...	...	...
3,000 to 9,999 acre-feet.....organizations... acre-feet...	(D)	6	(D)	4	...	...	...
10,000 to 29,999 acre-feet.....organizations... acre-feet...	(D)	1	(D)	1	...	...	2
30,000 to 99,999 acre-feet.....organizations... acre-feet...	(D)	1	(D)	3	...	1	...
100,000 or more acre-feet.....organizations... acre-feet...	(D)	...	(D)	2	1	2	1
Size of organization (acre-feet of water conveyed):							
None.....organizations... acre-feet...	(D)	...	(D)	1	1	...	...
1 to 299 acre-feet.....organizations... acre-feet...	(D)	12	(D)	...	...	...	...
300 to 999 acre-feet.....organizations... acre-feet...	(D)	27	(D)	...	...	...	...
1,000 to 2,999 acre-feet.....organizations... acre-feet...	(D)	23	(D)	...	...	...	...
3,000 to 9,999 acre-feet.....organizations... acre-feet...	(D)	10	(D)	3	...	...	...
10,000 to 29,999 acre-feet.....organizations... acre-feet...	(D)	1	(D)	2	...	...	2
30,000 to 99,999 acre-feet.....organizations... acre-feet...	(D)	2	(D)	4	...	2	...
100,000 or more acre-feet.....organizations... acre-feet...	(D)	...	(D)	2	1	2	1

D Data not shown to avoid disclosure of information for individual organizations.

State Table 5.—NUMBER OF IRRIGATION ORGANIZATIONS, TYPE OF SERVICE, NEW CAPITAL INVESTMENT, AND WATER CONVEYED, BY SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUS OF 1959

Item (For definitions and explanations, see text)		Washington, total				Columbia River below Snake River			
		(1-B)							
		Size of organization, by total water conveyed							
		0-999 acre-feet	1,000- 9,999 acre-feet	10,000- 99,999 acre-feet	100,000 or more acre-feet	0-999 acre-feet	1,000- 9,999 acre-feet	10,000- 99,999 acre-feet	100,000 or more acre-feet
1	Number of organizations.....organizations...	182	122	41	5	45	21	4	...
TYPE OF SERVICE									
2	All water directly from surface and ground sources.....organizations...	162	106	39	5	45	21	4	...
3	Total water conveyed.....acre-feet...	61,029	352,144	948,023	3,536,669	15,274	57,616	59,221	...
4	Water delivered.....acre-feet...	54,680	303,726	728,890	2,634,002	14,781	53,596	41,820	...
5	To farm and residential users only.....acre-feet...	162	103	35	4	45	21	4	...
6	To farm and residential users only.....acre-feet...	54,680	295,046	637,977	2,417,510	14,781	53,596	41,820	...
7	To farm and residential users and other	...	2	3	1	...	...	...	...
8	Irrigation organizations.....organizations...	...	735	45,426	213,834	...	...	...	...
9	Water to farm and residential users.....acre-feet...	1,645	27,180	2,658	...	...	...	...	...
10	Water to other irrigation organizations.....acre-feet...	...	1	1	...	...	...	...	...
11	To other irrigation organizations only.....organizations...	...	6,300	18,307	...	...	...	...	...
12	Part of water from other organizations.....organizations...	6	5	1	...	...	...	...	...
13	Total water conveyed.....acre-feet...	2,205	22,527	15,948	...	...	...	...	...
14	From surface and ground water sources.....acre-feet...	1,192	1,790	7,131	...	...	...	...	...
15	From other irrigation organizations.....acre-feet...	2,397	20,737	8,817	...	...	...	...	...
16	Water delivered.....acre-feet...	1,998	20,269	15,948	...	...	...	...	...
17	To farm and residential users only.....organizations...	6	5	...	...	...	...	...	...
18	To farm and residential users only.....acre-feet...	1,998	20,269	...	...	...	...	...	...
19	To farm and residential users and other	...	...	1	...	...	...	...	...
20	Irrigation organizations.....organizations...	...	...	9,900	...	...	...	...	...
21	Water to farm and residential users.....acre-feet...	...	...	6,048	...	...	...	...	...
22	Water to other irrigation organizations.....acre-feet...	...	...	...	...	...	...	...	...
23	To other irrigation organizations only.....organizations...	...	...	...	...	...	...	...	...
24	All of water from other organizations.....organizations...	11	11	1	...	...	...	...	...
25	Total water conveyed.....acre-feet...	3,761	26,676	15,498	...	...	...	...	...
26	Water delivered.....acre-feet...	3,509	19,008	15,498	...	...	...	...	...
27	To farm and residential users only.....organizations...	10	11	1	...	...	...	...	...
28	To farm and residential users only.....acre-feet...	2,754	19,008	15,498	...	...	...	...	...
29	To farm and residential users and other	...	...	...	...	...	...	...	...
30	Irrigation organizations.....organizations...	1	...	...	...	...	...	...	...
31	Water to farm and residential users.....acre-feet...	505	...	...	...	...	...	...	...
32	Water to other irrigation organizations.....acre-feet...	250	...	...	...	...	...	...	...
33	To other irrigation organizations only.....organizations...	...	...	...	...	...	...	...	...
34	No water conveyed.....organizations...	3	...	...	...	...	...	...	...
WATER FROM OTHER SOURCES									
35	Organizations reporting no water from other sources used	...	...	...	...	...	...	...	...
36	on land served by the organization.....organizations...	160	105	32	4	43	20	1	...
37	Water to farm and residential users.....acres served...	18,086	81,048	150,839	590,658	4,593	12,564	800	...
38	acres irrigated.....	15,507	69,133	127,370	533,992	4,194	11,774	800	...
39	Organizations reporting water from other sources used	...	...	...	...	...	...	...	...
40	on land served by the organization.....organizations...	19	16	8	1	2	1	3	...
41	Water to farm and residential users.....acres served...	4,557	9,354	41,190	57,400	494	409	15,200	...
42	acres irrigated.....	2,951	9,007	39,373	54,140	494	409	14,621	...
NEW CAPITAL INVESTMENT, 1950-1959									
43	Expenditures for additional new works and	...	...	...	...	...	...	...	...
44	equipment for irrigation and drainage,	...	...	...	...	...	...	...	...
45	January 1, 1950-December 31, 1959.....organizations...	53	34	25	5	4	3	2	...
46	dollars.....	1,022,502	2,770,995	7,577,039	189,397,818	35,166	38,375	48,000	...
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959									
47	Total entering conveyance systems in basin.....organizations...	179	122	41	5	45	21	4	...
48	From another drainage basin.....organizations...	60,837	353,934	970,652	3,536,669	15,274	57,616	59,221	...
49	From another drainage basin.....acre-feet...	...	...	67,703	...	...	...	15,364	...
50	From Drainage Basin number.....D. B. No.....	...	...	...	...	...	...	...	...
51	From natural sources within basin.....organizations...	168	111	38	45	25	21	3	...
52	Surface water.....acre-feet...	60,837	353,934	902,949	3,536,669	15,274	57,616	43,857	...
53	Ground water.....acre-feet...	152	109	37	5	43	21	3	...
54	From other organizations in the basin.....organizations receiving...	54,375	338,365	892,131	3,449,069	14,091	57,616	43,857	...
55	From other organizations in the basin.....acre-feet...	6,462	15,569	10,818	87,600	1,183	...	...	...
56	Total leaving conveyance systems.....organizations...	179	122	41	5	45	21	4	...
57	From another drainage basin.....organizations...	66,745	393,402	927,934	3,534,011	15,274	57,616	59,221	...
58	Conveyance loss in basin.....organizations...	179	104	36	5	19	17	4	...
59	Conveyed to another drainage basin.....organizations...	6,663	50,320	194,480	902,024	493	4,020	13,037	...
60	Conveyed to another drainage basin.....acre-feet...	...	...	1	...	...	...	1	...
61	To drainage basin number.....D. B. No.....	...	...	4,364	...	...	...	4,364	...
62	Delivered for use in the basin.....organizations...	179	121	41	5	45	21	4	...
63	To farm irrigation water users.....organizations...	60,082	343,082	729,090	2,631,987	14,781	53,596	41,820	...
64	To residential water users.....organizations...	179	121	45	5	21	...	...	...
65	To farm irrigation water users.....acre-feet...	58,792	330,261	676,907	2,631,344	14,012	53,587	41,820	...
66	To residential water users.....acre-feet...	14	12	19	...	3	1	...	...
67	For other use.....organizations...	1,145	4,797	31,894	...	769	9	...	...
68	Delivered to other irrigation organizations.....organizations delivering...	3	9	...	...	...	...	...	...
69	To other use.....acre-feet...	145	8,024	20,289	643	...	...	...	...
70	Delivered to other irrigation organizations.....organizations delivering...	1	3	5	1	...	...	...	...
71	AVERAGE DELIVERY OF IRRIGATION WATER PER ACRE, 1959	250	7,945	51,535	2,658	...	...	...	...
PER ACRE IRRIGATED, AS REPORTED BY IRRIGATION ORGANIZATION:									
72	All organizations.....acre-feet...	2.3	4.2	4.3	4.5	1.9	4.4	4.6	...
73	Organizations reporting no water from other sources used	...	...	...	...	...	...	...	...
74	on land served by the organization.....organizations...	160	105	32	4	43	20	1	...
75	acres irrigated.....	3.4	4.2	4.3	4.5	3.1	4.4	7.0	...

¹Water was transferred to the basin and released to natural stream channels in excess of the quantity of surface water withdrawn by irrigation organizations. The net effect was to increase the available surface water supply in the basin or State.

State Table 5.—NUMBER OF IRRIGATION ORGANIZATIONS, TYPE OF SERVICE, NEW CAPITAL INVESTMENT, AND WATER CONVEYED, BY SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUS OF 1959—Continued

Item (For definitions and explanations, see text)		Columbia River above Snake River excluding Yakima River			Yakima River			
		(1-C)			(1-D)			
		Size of organization, by total water conveyed						
		0-999 acre-feet	1,000-9,999 acre-feet	10,000 or more acre-feet	0-999 acre-feet	1,000- 9,999 acre-feet	10,000- 99,999 acre-feet	100,000 or more acre-feet
1	Number of organizations.....	92	42	15	45	55	17	4
TYPE OF SERVICE								
2	All water directly from surface and ground sources.....	74	34	13	43	47	17	4
3	Total water conveyed.....	25,680	112,373	1,960,771	20,075	156,947	486,812	(D)
4	Water delivered.....	22,786	91,941	1,307,804	17,113	135,298	345,240	(D)
5	To farm and residential users only.....	74	32	10	43	46	16	3
6	To farm and residential users and other irrigation organizations.....	22,786	89,561	1,231,641	17,113	128,998	330,490	(D)
7	Water to farm and residential users.....	...	2	2	...	...	1	...
8	Water to other irrigation organizations.....	...	735	44,676	...	...	750	(D)
9	To other irrigation organizations only.....	...	1,645	13,180	...	...	14,000	(D)
10	Part of water from other organizations.....	...	...	1	...	1	...	...
11	Total water conveyed.....	6	4	1	...	6,300	...	...
12	From surface and ground water sources.....	2,205	19,992	15,948	...	2,535	...	...
13	From other irrigation organizations.....	1,492	5,255	7,131	...	1,465	...	...
14	Water delivered.....	2,397	14,737	8,817	...	6,000	...	...
15	To farm and residential users only.....	1,998	18,334	15,948	...	1,935	...	...
16	To farm and residential users and other irrigation organizations.....	1,998	18,334	...	...	1,935	...	...
17	Water to farm and residential users.....	...	...	1	...	...	...	...
18	Water to other irrigation organizations.....	...	...	9,900	...	...	...	...
19	To other irrigation organizations only.....	...	...	6,048	...	...	...	...
20	All of water from other organizations.....	...	...	...	...	...	...	...
21	Total water conveyed.....	11	4	1	...	7	...	...
22	Water delivered.....	3,761	9,718	15,498	...	16,958	...	...
23	To farm and residential users only.....	3,509	9,718	15,498	...	9,290	...	...
24	To farm and residential users and other irrigation organizations.....	10	4	1	...	7	...	...
25	Water to farm and residential users.....	2,754	9,718	15,498	...	9,290	...	...
26	Water to other irrigation organizations.....	...	...	...	...	...	...	...
27	To other irrigation organizations only.....	...	...	...	...	...	...	...
28	No water conveyed.....	1	...	...	2	...	...	...
WATER FROM OTHER SOURCES								
35	Organizations reporting no water from other sources used on land served by the organization.....	81	37	12	36	45	14	3
36	Acres served.....	8,183	32,219	367,657	5,310	33,506	90,662	(D)
37	Acres irrigated.....	6,617	26,517	309,705	4,696	28,422	79,011	(D)
38	Organizations reporting water from other sources used on land served by the organization.....	10	5	2	7	9	3	1
39	Acres served.....	2,931	2,727	8,590	1,132	5,018	17,400	(D)
40	Acres irrigated.....	1,771	2,400	7,552	686	4,998	17,400	(D)
NEW CAPITAL INVESTMENT, 1950-1959								
41	Expenditures for additional new works and equipment for irrigation and drainage, January 1, 1950-December 31, 1959.....	32	13	12	17	16	11	4
42	dollars.....	245,817	2,670,997	189,049,263	1,876,256	40,037	3,972,112	(D)
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959								
43	Total entering conveyance systems in basin.....	91	42	15	43	55	17	4
44	From another drainage basin.....	25,488	117,828	1,983,400	20,075	153,482	486,812	(D)
45	From drainage basin number.....	...	...	3	...	...	...	...
46	From drainage basin number.....	...	...	117,095	...	...	...	...
47	From natural sources within basin.....	80	38	12	43	48	17	4
48	Surface water.....	25,488	117,828	1,866,305	20,075	153,482	486,812	(D)
49	Ground water.....	69	11	17	17	4	...	...
50	From other organizations in the basin.....	21,620	108,493	1,768,197	18,664	147,248	486,812	(D)
51	Ground water.....	12	1	2	3	3	...	...
52	From other organizations in the basin.....	3,868	9,335	98,108	1,411	6,234	...	...
53	From other organizations in the basin.....	17	8	...	...	8	...	...
54	From other organizations in the basin.....	6,158	24,455	8,817	...	22,958	...	...
55	Total leaving conveyance systems.....	91	42	15	43	55	17	4
56	Conveyance loss in basin.....	31,396	140,638	1,954,682	20,075	170,140	472,812	(D)
57	Conveyed to another drainage basin.....	57	31	13	40	53	14	4
58	Conveyed to another drainage basin.....	3,240	22,218	650,917	2,930	21,965	58,762	(D)
59	To drainage basin number.....	...	...	...	...	...	1	...
60	To drainage basin number.....	...	...	...	...	...	64,756	...
61	Delivered for use in the basin.....	91	42	15	43	55	17	4
62	To farm irrigation water users.....	28,156	118,420	1,303,765	17,145	148,175	349,294	(D)
63	To residential water users.....	91	42	14	43	54	16	4
64	For other use.....	27,730	115,897	1,289,415	17,050	138,051	323,749	(D)
65	Delivered for use in the basin.....	9	5	6	2	7	8	...
66	To farm irrigation water users.....	313	2,541	12,300	63	2,172	7,491	(D)
67	For other use.....	2	2	1	1	8	...	...
68	Delivered for use in the basin.....	113	72	2,050	32	7,952	18,054	(D)
69	To farm irrigation water users.....	1	2	4	...	1	1	...
70	For other use.....	250	1,645	37,535	...	6,300	14,000	(D)
AVERAGE DELIVERY OF IRRIGATION WATER PER ACRE, 1959								
71	Per acre irrigated, as reported by irrigation organization:							
72	All organizations.....	1.3	4.0	4.1	3.2	4.1	3.7	(D)
73	Organizations reporting no water from other sources used on land served by the organization.....	81	37	12	36	45	14	3
74	From other organizations in the basin.....	3.9	4.1	3.7	3.1	4.1	3.7	(D)

¹Water was transferred to the basin and released to natural stream channels in excess of the quantity of surface water withdrawn by irrigation organizations. The net effect was to increase the available surface water supply in the basin or State.

WYOMING

(367)

IRRIGATION OF AGRICULTURAL LANDS

State Table 1.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS,

Item (For definitions and explanations, see text)	The State	North Pacific Coast (Snake River) (I-II)				Great Basin (Bear River) (III-E)		
		Total	Gros Ventre River and Snake River direct	Henry's Fork (Upper Teton River)	Salt River	Total	Below Woodruff, Utah	Above Woodruff
			(1b, 5)	(3b)	(4)		(1b)	(1c)
1 Total acres irrigated in Census year.....1959...	1,469,911	65,000	26,000	3,000	36,000	51,000	20,000	31,000
2 1949...	1,474,833	66,689	24,979	2,447	39,263	55,903	27,402	28,501
3 Irrigation organizations.....organizations 1959...	686	83	14	9	61	37	4	33
4 1949...	693	107	15	6	86	23	7	16
5 Service area, 1959:								
6 Farm area reported served by organizations.....acres 1959...	1,166,907	59,752	8,705	2,128	48,919	33,503	4,692	28,811
7 Farm area reported irrigated by organizations.....acres 1959...	1,057,540	54,498	8,497	2,047	43,954	33,503	4,692	28,811
8 Water users served, total.....water users 1959...	10,347	821	57	20	744	229	39	190
9 Farm irrigation water users.....water users 1959...	8,962	728	57	20	651	229	39	190
10 Residential water users.....water users 1959...	1,373	93	...	...	93	...	...	...
11 Other water users.....water users 1959...	12	...	...	...	...	...	...	...
12 LAND IRRIGATED BY SOURCE OF WATER, 1959								
13 Ground water sources.....acres...	34,120	1,000	...	...	1,000	...	...	...
14 Surface water sources.....acres...	1,435,791	64,000	26,000	3,000	35,000	51,000	20,000	31,000
15 WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959								
16 Total entering conveyance systems in basin.....organizations...	675	83	13	9	61	37	4	33
17 acre-feet...	4,900,254	474,779	108,450	31,383	334,946	101,928	28,067	73,861
18 From another drainage basin.....organizations...	3	...	...	...	...	1	...	...
19 acre-feet...	10,320	...	...	...	...	2,880	...	2,880
20 From drainage basin number.....D. B. No....	...	...	...	...	...	III-E-1c	...	III-E-1c
21 From natural sources within basin.....organizations...	638	81	13	8	60	37	4	33
22 acre-feet...	4,889,934	474,779	108,450	31,383	334,946	99,048	28,067	70,981
23 Surface water.....organizations...	632	76	13	8	55	37	4	33
24 acre-feet...	4,883,524	470,829	108,450	31,383	330,996	99,048	28,067	70,981
25 Ground water.....organizations...	7	5	...	...	5	...	...	...
26 acre-feet...	6,410	3,950	...	...	3,950	...	...	...
27 From other organizations in the basin.....organizations receiving...	62	9	7	1	1	...	...	...
28 acre-feet...	515,707	37,340	25,920	1,160	10,260	...	...	...
29 Total leaving conveyance systems.....organizations...	675	83	13	9	61	37	4	33
30 acre-feet...	4,900,254	474,779	108,450	31,383	334,946	101,928	28,067	73,861
31 Conveyance loss in basin.....organizations...	653	81	13	8	60	37	4	33
32 acre-feet...	1,015,555	83,017	13,669	1,143	68,005	14,180	5,161	9,019
33 Conveyed to another drainage basin.....organizations...	15	7	...	6	1	...	...	1
34 acre-feet...	579,444	26,069	...	23,194	2,875	6,360	...	6,360
35 To drainage basin number.....D. B. No....	...	...	...	(1)	1-8-4	...	...	(2)
36 Delivered for use in the basin.....organizations...	659	76	12	4	60	37	4	33
37 acre-feet...	3,305,255	365,693	94,581	7,046	264,066	81,388	22,906	58,482
38 To farm irrigation water users.....organizations...	659	76	12	4	60	37	4	33
39 acre-feet...	3,278,182	356,581	94,581	7,046	254,954	81,388	22,906	58,482
40 To residential water users.....organizations...	29	8	...	...	8	...	...	...
41 acre-feet...	17,530	9,112	...	...	9,112	...	...	...
42 For other use.....organizations...	9	...	...	...	...	...	...	...
43 acre-feet...	9,543	...	...	...	...	...	...	...
44 Delivered to other irrigation organizations.....organizations delivering...	25	3	1	1	1	...	...	...
45 acre-feet...	515,707	37,340	25,920	1,160	10,260	...	...	...
46 Average delivery of irrigation water per acre irrigated as reported by organizations.....acre-feet...	3.1	6.5	11.1	3.4	5.8	2.4	4.9	2.0
47 NEW CAPITAL INVESTMENT, 1950-1959								
48 Expenditures for additional new works and equipment for irrigation and drainage, Jan. 1, 1950-Dec. 31, 1959.....organizations...	379	45	7	7	31	12	2	10
49 dollars...	29,176,133	193,152	44,736	58,151	90,265	51,583	10,650	40,933

D Data not shown to avoid disclosure of information for individual organizations. ¹14,028 acre-feet to D. B. No. Idaho I-B-3b, 9,166 acre-feet to D. B. No. VI-D-5c.

²180 acre-feet to D. B. No. Utah III-E-1b, 6,180 acre-feet to D. B. No. Utah III-E-1c.

BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950

Gulf of California (Green River) (IV-E)										Mississippi River	Missouri River below Three Forks, Montana, excluding Platte and Yellowstone Rivers (VI-C)			
Total	Green River direct, Sandy Creek, and Horse Creek	Yampa River (Little Snake River)	Henry's Fork	Blacks Fork	La Barge Creek	Piney Creek	New Fork	Cottonwood Creek	Total ³		Cheyenne River			
											Total	Cheyenne River direct	Belle Fourche River	
	(1, 11, 16)	(8b)	(9)	(10)	(12)	(13)	(14)	(15)			(5a)	(5b)		
271,000	57,000	17,000	19,000	74,000	6,000	43,000	40,000	15,000	1,083,000	19,000	19,000	12,000	7,000	
260,924	48,407	15,653	21,005	74,494	6,101	31,559	48,307	15,398	1,091,319	12,169	11,969	9,523	2,446	
67	7	13	5	26	...	4	12	...	499	2	2	...	2	
40	7	4	3	17	...	4	5	...	524	2	2	...	2	
169,048	28,159	14,104	7,710	55,265	...	4,091	59,719	...	904,604	(D)	(D)	...	(D)	
143,783	24,020	14,104	6,376	50,003	...	3,629	45,651	...	825,756	(D)	(D)	...	(D)	
625	103	77	29	267	...	11	138	...	8,672	(D)	(D)	...	(D)	
604	103	77	29	246	...	11	138	...	7,401	(D)	(D)	...	(D)	
21	...	...	...	21	...	...	...	...	1,259	...	...	...	...
...	...	...	...	...	...	...	...	...	12	...	...	...	...
2,000	1,000	...	...	1,000	...	...	...	...	31,000	2,000	2,000	2,000	...
269,000	56,000	17,000	19,000	73,000	6,000	43,000	40,000	15,000	1,052,000	17,000	17,000	10,000	7,000	
67	7	13	5	26	...	4	12	...	488	1	1	...	1	
491,309	93,658	37,132	13,590	111,251	...	13,648	222,030	...	3,832,238	(D)	(D)	...	(D)	
2	...	...	2	...	...	...	...	...	...	...	...	...	...
7,440	...	...	7,440	...	...	...	...	...	...	...	...	...	...
...	...	...	IV-E-9	...	...	...	...	...	...	...	...	...	...
65	7	13	3	26	...	4	12	...	455	1	1	...	1	
483,869	93,658	37,132	6,150	111,251	...	13,648	222,030	...	3,832,238	(D)	(D)	...	(D)	
65	7	13	3	26	...	4	12	...	454	1	1	...	1	
483,869	93,658	37,132	6,150	111,251	...	13,648	222,030	...	3,829,778	(D)	(D)	...	(D)	
...	...	...	...	...	...	...	...	...	2	...	...	...	...
...	...	...	...	...	...	...	...	...	2,460	...	...	...	...
1	...	...	...	1	...	...	...	...	52	...	...	...	...
800	...	...	...	800	...	...	...	...	477,567	...	...	...	...
67	7	13	5	26	...	4	12	...	488	1	1	...	1	
491,309	93,658	37,132	13,590	111,251	...	13,648	222,030	...	3,832,238	(D)	(D)	...	(D)	
63	7	12	5	24	...	3	12	...	472	1	1	...	1	
69,003	15,500	7,679	2,142	7,682	...	2,120	33,880	...	849,355	(D)	(D)	...	(D)	
1	...	1	...	...	...	...	...	...	6	1	1	...	1
4,038	...	4,038	...	...	...	...	...	...	542,977	(D)	(D)	...	(D)
...	
67	7	13	5	26	...	4	12	...	479	1	1	...	1	
418,268	78,158	25,415	11,448	103,569	...	11,528	188,150	...	2,439,906	(D)	(D)	...	(D)	
67	7	13	5	26	...	4	12	...	479	1	1	...	1	
418,058	78,158	25,415	11,448	103,359	...	11,528	188,150	...	2,422,155	(D)	(D)	...	(D)	
2	...	...	...	2	...	...	...	...	19	...	...	...	...
210	...	...	...	210	...	...	...	...	8,208	...	...	...	...
...	...	...	...	...	...	...	...	...	9	...	...	...	...
...	...	...	...	...	...	...	...	...	9,543	...	...	...	...
1	...	...	...	1	...	...	...	...	21	...	...	...	...
800	...	...	...	800	...	...	...	...	477,567	...	...	...	...
2.9	3.2	1.8	1.8	2.1	...	3.2	4.1	...	2.9	(D)	(D)	...	(D)	
39	3	3	4	16	...	4	9	...	283	2	2	...	2	
335,861	9,160	13,350	7,200	77,566	...	7,350	221,235	...	28,595,537	(D)	(D)	...	(D)	

S. Dak.
VI-C-5b

IRRIGATION OF AGRICULTURAL LANDS

State Table 1.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS,

Item (For definitions and explanations, see text)	Platte River excluding South Platte River (North Platte River) (VI-D)									
	Total	North Platte River direct				Horse Creek	Laramie River			
		Total	Below Guernsey Reservoir	Guernsey Reservoir to Alcova Dam	Above Alcova Dam		Total	Laramie River direct	Chugwater Creek	Little Laramie River
(3b)	(3c)	(3d)	(4)	(5a, c)	(5b)	(5d)				
1 Total acres irrigated in Census year.....1959.....	498,000	165,000	67,000	49,000	49,000	22,000	162,000	105,000	11,000	46,000
2 .....1949.....	543,673	189,062	82,223	49,248	37,591	23,452	180,094	111,646	13,382	55,066
3 Irrigation organizations.....organizations 1959.....	142	46	16	17	13	6	55	42	5	10
4 .....1949.....	161	54	15	24	17	4	57	44	1	13
5 Service area, 1959:										
6 Farm area reported served by organizations.....acres 1959.....	(D)	142,165	96,580	34,250	11,335	(D)	106,596	84,016	5,400	17,180
7 Farm area reported irrigated by organizations.....acres 1959.....	(D)	140,095	95,729	33,031	11,335	(D)	100,504	82,684	5,400	12,420
8 Water users served, total.....water users 1959.....	(D)	1,454	1,181	241	32	(D)	594	527	39	28
9 Farm irrigation water users.....water users 1959.....	(D)	1,090	817	241	32	(D)	593	526	39	28
10 Residential water users.....water users 1959.....	(D)	364	364	...	...	...	...	...	...	...
11 Other water users.....water users 1959.....	(D)	...	...	...	...	...	1	1	...	...
12 LAND IRRIGATED BY SOURCE OF WATER, 1959										
13 Ground water sources.....acres.....	14,000	5,000	3,000	1,000	1,000	...	6,000	4,000	1,000	1,000
14 Surface water sources.....acres.....	484,000	160,000	64,000	48,000	48,000	22,000	156,000	101,000	10,000	45,000
15 WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959										
16 Total entering conveyance systems in basin.....organizations.....	139	42	15	15	12	6	55	42	5	10
17 .....acre-feet.....	(D)	903,992	789,144	85,001	29,847	(D)	196,488	162,737	7,834	33,751
18 From another drainage basin.....organizations.....	...	3	2	1	...	...	...	...	2	...
19 .....acre-feet.....	...	8,470	2,470	6,000	...	...	...	...	7,834	...
20 From drainage basin number.....D. B. No.....	...	...	(2)	VI-D-7	...	...	...	...	VI-D-5a	...
21 From natural sources within basin.....organizations.....	112	38	12	14	12	6	30	20	...	10
22 .....acre-feet.....	(D)	895,522	786,674	79,001	29,847	(D)	196,488	162,737	...	33,751
23 Surface water.....organizations.....	111	37	12	13	12	6	30	20	...	10
24 .....acre-feet.....	(D)	893,362	786,674	76,841	29,847	(D)	196,488	162,737	...	33,751
25 Ground water.....organizations.....	1	1	...	1	...	...	...	...	...	...
26 .....acre-feet.....	(D)	2,160	...	2,160	...	...	...	...	...	...
27 From other organizations in the basin.....organizations receiving.....	29	3	3	...	...	...	26	23	3	...
28 .....acre-feet.....	(D)	174,718	174,718	...	...	...	42,452	35,671	6,781	...
29 Total leaving conveyance systems.....organizations.....	139	42	15	15	12	6	55	42	5	10
30 .....acre-feet.....	(D)	903,992	789,144	85,001	29,847	(D)	196,488	162,737	7,834	33,751
31 Conveyance loss in basin.....organizations.....	130	37	13	14	10	5	53	41	5	...
32 .....acre-feet.....	(D)	112,231	85,994	21,816	4,421	(D)	32,265	23,766	1,170	7,329
33 Conveyed to another drainage basin.....organizations.....	2	2	2	...	...	1	1	3	...	...
34 .....acre-feet.....	(D)	536,991	536,991	...	...	(D)	420	8,254	...	...
35 To drainage basin number.....D. B. No.....	...	...	VI-D-3b	...	...	VI-D-3b	(3)	...	...	...
36 Delivered for use in the basin.....organizations.....	138	42	15	15	12	5	55	41	4	10
37 .....acre-feet.....	(D)	254,770	166,159	63,185	25,426	(D)	163,803	130,717	6,664	26,422
38 To farm irrigation water users.....organizations.....	138	42	15	15	12	5	55	41	4	10
39 .....acre-feet.....	(D)	253,311	164,700	63,185	25,426	(D)	158,914	125,828	6,664	26,422
40 To residential water users.....organizations.....	3	3	3	...	...	...	...	...	...	...
41 .....acre-feet.....	(D)	1,459	1,459	...	...	...	...	...	...	...
42 For other use.....organizations.....	2	...	...	...	...	...	1	1	...	...
43 .....acre-feet.....	(D)	...	...	...	...	...	4,889	4,889	...	...
44 Delivered to other irrigation organizations.....organizations delivering.....	3	2	2	...	...	...	1	1	1	...
45 .....acre-feet.....	(D)	174,718	174,718	...	...	...	42,452	35,671	6,781	...
46 Average delivery of irrigation water per acre irrigated as reported by organizations.....acre-feet.....	(D)	1.8	1.7	1.9	2.2	(D)	1.6	1.5	1.2	2.1
47 NEW CAPITAL INVESTMENT, 1950-1959										
48 Expenditures for additional new works and equipment for irrigation and drainage, Jan. 1, 1950-Dec. 31, 1959.....organizations.....	53	18	5	5	8	3	14	9	...	5
49 .....dollars.....	(D)	8,435,981	2,760,150	5,337,293	338,538	(D)	39,716	33,650	...	6,066

D Data not shown to avoid disclosure of information for individual organizations. ¹Data for less than 3 organizations in Basin VI-C-3 and VI-F-4d are included in totals only for 1949. ²2,050 acre-feet from D. B. No. VI-D-4, 420 acre-feet from D. B. No. VI-D-5a. ³7,834 acre-feet to D. B. No. VI-D-5b, 420 acre-feet to D. B. No. VI-D-3b.

BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Continued

Platte River excluding South Platte River (North Platte River) (VI-D)—Continued							South Platte River (VI-E)				Yellowstone River excluding Big Horn River (VI-F)			
La Bonte Creek	La Prele Creek	Sweetwater River	Medicine Bow River and Pasa Creek	Spring Creek	Encampment Creek	Beaver Creek	Total	Lodgepole Creek	Crow Creek	Catche la Poudre River	Total ¹	Powder River		
												Total	Powder River direct	Clear Creek
(6)	(7)	(8)	(9, 10)	(11)	(12)	(13)		(2)	(5)	(6)			(2a)	(2b)
6,000	11,000	24,000	89,000	2,000	11,000	6,000	27,000	10,000	13,000	4,000	114,000	54,000	9,000	31,000
8,993	11,532	12,198	89,428	2,507	18,707	7,700	18,452	9,677	5,054	3,721	113,086	50,844	7,168	25,639
8	6	3	10	3	9	...	...	...	...	...	140	75	...	57
9	6	3	14	3	14	...	...	...	...	...	139	73	2	55
1,365	3,465	1,347	26,375	2,689	9,081	...	...	...	...	...	124,124	59,460	...	43,882
1,190	2,835	1,242	25,125	2,689	8,132	...	...	...	...	...	106,708	48,626	...	34,370
14	24	10	48	9	31	...	...	...	...	...	1,010	283	...	211
14	24	10	48	9	30	...	...	...	...	...	1,007	282	...	210
...	...	...	...	...	...	...	...	...	...	...	2	...	...	9
...	...	...	...	...	1	...	...	...	...	...	1	1	...	1
1,000	...	...	2,000	...	...	...	11,000	5,000	6,000	...	...	...	...	...
5,000	11,000	24,000	87,000	2,000	11,000	6,000	16,000	5,000	7,000	4,000	114,000	54,000	9,000	31,000
8	6	3	10	3	9	...	...	...	...	...	134	70	...	52
3,082	10,534	2,563	53,638	3,634	22,472	...	...	...	...	...	320,884	131,373	...	94,388
...	1	...	...	...	...	...	...	...	...	...	...	...	...	...
...	1,000	...	...	...	...	...	...	...	...	...	...	...	...	...
...	VI-D-6	...	...	...	...	...	...	...	...	...	...	...	...	...
8	6	3	10	3	9	...	...	...	...	...	134	70	...	52
3,082	9,534	2,563	53,638	3,634	22,472	...	...	...	...	...	320,884	131,373	...	94,388
8	6	3	10	3	9	...	...	...	...	...	134	70	...	52
3,082	9,534	2,563	53,638	3,634	22,472	...	...	...	...	...	320,584	131,073	...	94,088
...	...	...	...	...	...	...	...	...	...	...	1	1	...	22
...	...	...	...	...	...	...	...	...	...	...	300	300	...	300
...	...	...	...	...	...	...	...	...	...	...	7	...	...	...
...	...	...	...	...	...	...	...	...	...	...	19,313	...	...	...
8	6	3	10	3	9	...	...	...	...	...	134	70	...	52
3,082	10,534	2,563	53,638	3,634	22,472	...	...	...	...	...	320,884	131,373	...	94,388
7	6	3	10	3	8	...	...	...	...	...	132	69	...	51
594	1,551	687	7,722	213	2,964	...	...	...	...	...	73,354	23,990	...	16,710
1	1	...	...	...	...	...	...	...	...	...	2	1	...	30
1,000	6,000	...	...	...	...	...	...	...	...	...	2,570	5,160	...	5,160
VI-D-7	VI-D-3c	...	...	...	...	...	...	...	...	...	...	...	...	Montana VI-F-3a
7	6	3	10	3	9	...	...	...	...	...	128	67	...	49
1,488	2,983	1,876	45,916	3,421	19,508	...	...	...	...	...	244,960	102,223	...	72,518
7	6	3	10	3	9	...	...	...	...	...	128	67	...	49
1,488	2,983	1,876	45,916	3,421	17,456	...	...	...	...	...	244,100	102,221	...	72,516
...	...	...	...	...	...	...	...	...	...	...	1	...	...	...
...	...	...	...	...	...	...	...	...	...	...	858	...	...	...
...	...	...	...	...	1	...	...	...	...	...	1	1	...	1
...	...	...	...	...	2,052	...	...	...	...	...	2	2	...	2
...	...	...	...	...	...	...	...	...	...	...	7	...	...	...
...	...	...	...	...	...	...	...	...	...	...	19,313	...	...	...
1.3	1.1	1.5	1.8	1.3	2.1	...	...	...	...	...	2.3	2.1	...	2.1
2	4	1	5	2	4	...	...	...	...	...	104	62	...	49
5,500	9,565	1,000	11,700	1,450	21,700	...	...	...	...	...	615,809	445,108	...	356,060

State Table 1.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY DRAINAGE BASINS:
CENSUSES OF 1959 AND 1950—Continued

Item (For definitions and explanations, see text)	Yellowstone River excluding Big Horn River (VI-F)—Continued						Big Horn River (VI-G)		
	Powder River—Continued		Tongue River			Clarks Fork	Total ¹	Big Horn River direct	Shoshone River
	Crazy Woman Creek	Middle Fork	Total	Tongue River direct	Goose Creek				
	(2c)	(2d)	(3a)	(3b)	(4a)			(1)	(3)
1 Total acres irrigated in Census year.....1959...	10,000	4,000	47,000	21,000	26,000	13,000	425,000	82,000	127,000
2 1949...	10,377	7,660	48,777	18,030	30,747	12,890	403,939	69,688	115,627
3 Irrigation organizations.....organizations 1959...	10	8	57	30	27	9	215	26	18
4 1949...	9	8	56	30	26	10	222	31	14
5 Service area, 1959: Farm area reported served by organizations.....acres 1959...	7,977	7,601	56,195	24,610	31,585	8,469	480,454	89,537	149,198
6 Farm area reported irrigated by organizations.....acres 1959...	7,215	7,041	49,733	20,778	28,955	8,349	431,236	84,916	138,464
7 Water users served, total.....water users 1959...	28	44	684	230	454	43	5,455	853	2,564
8 Farm irrigation water users.....water users 1959...	28	44	682	230	452	43	4,553	832	1,925
9 Residential water users.....water users 1959...	...	...	2	...	2	...	893	17	639
10 Other water users.....water users 1959...	...	...	...	...	...	...	9	4	...
11 LAND IRRIGATED BY SOURCE OF WATER, 1959 Ground water sources.....acres...	...	...	...	...	...	...	4,000	1,000	...
12 Surface water sources.....acres...	10,000	4,000	47,000	21,000	26,000	13,000	421,000	81,000	127,000
13 WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959 Total entering conveyance systems in basin.....organizations...	10	8	56	29	27	9	214	26	18
14 acre-feet...	10,066	26,919	122,576	52,197	70,379	72,095	2,310,455	578,676	793,722
15 From another drainage basin.....organizations...	...	...	1	1	...	...	...	2	...
16 acre-feet...	...	...	5,160	...	...	...	...	116,655	...
17 From drainage basin number.....D. B. No. ....	...	...	...	VI-F-2b	...	...	...	(2)	...
18 From natural sources within basin.....organizations...	10	8	55	28	27	9	208	23	17
19 acre-feet...	10,066	26,919	117,416	47,037	70,379	72,095	2,310,455	462,021	793,722
20 Surface water.....organizations...	10	8	55	28	27	9	208	23	17
21 acre-feet...	10,066	26,919	117,416	47,037	70,379	72,095	2,310,455	462,021	793,722
22 Ground water.....organizations...	...	...	...	...	...	...	...	...	...
23 acre-feet...	...	...	...	...	...	...	...	...	...
24 From other organizations in the basin.....organizations receiving...	...	...	7	2	5	...	16	3	2
25 acre-feet...	...	...	19,313	8,181	11,132	...	241,084	35,200	92,308
26 Total leaving conveyance systems.....organizations...	10	8	56	29	27	9	214	26	18
27 acre-feet...	10,066	26,919	122,576	52,197	70,379	72,095	2,310,455	578,676	793,722
28 Conveyance loss in basin.....organizations...	10	8	55	29	26	9	209	26	17
29 acre-feet...	1,846	5,434	24,851	9,367	15,484	24,513	616,117	156,574	224,330
30 Conveyed to another drainage basin.....organizations...	...	...	1	1	...	1	1	...	...
31 acre-feet...	...	...	280	280	...	2,290	216	...	216
32 To drainage basin number.....D. B. No. ....	...	...	...	Montana VI-F-3a	...	Montana VI-F-4a	...	Montana VI-0-3	...
33 Delivered for use in the basin.....organizations...	10	8	52	29	23	9	212	26	18
34 acre-feet...	8,220	21,485	97,445	42,550	54,895	45,292	1,694,122	422,102	569,176
35 To farm irrigation water users.....organizations...	10	8	55	29	26	9	212	26	18
36 acre-feet...	8,220	21,485	96,587	42,550	54,037	45,292	1,685,631	419,718	567,583
37 To residential water users.....organizations...	...	...	1	...	1	...	15	2	4
38 acre-feet...	...	...	858	...	858	...	5,891	564	1,593
39 For other use.....organizations...	...	...	...	...	...	...	6	1	...
40 acre-feet...	...	...	...	...	...	...	2,600	1,820	...
41 Delivered in other irrigation organizations.....organizations delivering...	...	...	7	2	5	...	11	1	2
42 acre-feet...	...	...	19,313	8,181	11,132	...	241,084	35,200	92,308
43 Average delivery of irrigation water per acre irrigated as reported by organizations.....acre-feet...	1.1	3.1	1.9	2.0	1.9	5.4	3.9	4.9	4.1
44 NEW CAPITAL INVESTMENT, 1950-1959 Expenditures for additional new works and equipment for irrigation and drainage, Jan. 1, 1950-Dec. 31, 1959.....organizations...	6	7	40	23	17	3	124	13	12
45 dollars...	34,362	54,686	155,701	21,911	139,790	15,000	16,327,116	2,578,711	2,519,542

¹Little Horn River VI-C-2 not shown separately but data are included in total only for 1949.²14,335 acre-feet from D. B. No. VI-G-7, 102,320 acre-feet from D. B. No. VI-G-5.

State Table 1.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY DRAINAGE BASINS:
CENSUSES OF 1959 AND 1950—Continued

Item (For definitions and explanations, see text)	Big Horn River (VI-G)—Continued							
	Shell Creek	Graybull River	Norwood Creek	Owl Creek	Total	Wind River		
						Below Crowheart gage	Above Crowheart gage	Little Wind River, including Popo Agie River
	(4)	(5)	(6)	(7)		(8a)	(8b)	(8c)
1 Total acres irrigated in Census year.....1959...	8,000	43,000	16,000	13,000	136,000	86,000	8,000	42,000
2 1949...	10,167	49,883	17,715	11,385	128,337	NA	NA	40,219
3 Irrigation organizations.....organizations 1959...	19	35	35	20	65	9	11	45
4 1949...	18	41	45	18	62	NA	NA	44
5 Service area, 1959: Farm area reported served by organizations.....acres 1959...	10,564	46,803	13,231	14,415	156,706	88,642	17,364	50,700
6 Farm area reported irrigated by organizations.....acres 1959...	10,236	42,726	11,890	7,049	135,955	83,327	14,925	37,703
7 Water users served, total.....water users 1959...	138	295	172	84	1,349	762	115	472
8 Farm irrigation water users.....water users 1959...	138	295	107	84	1,172	654	114	404
9 Residential water users.....water users 1959...	...	...	65	...	172	107	...	65
10 Other water users.....water users 1959...	...	...	...	...	5	1	1	3
11 LAND IRRIGATED BY SOURCE OF WATER, 1959								
12 Ground water sources.....acres...	...	2,000	...	...	1,000	...	...	1,000
13 Surface water sources.....acres...	8,000	41,000	16,000	13,000	135,000	86,000	8,000	41,000
14 WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959								
15 Total entering conveyance systems in basin.....organizations...	19	35	35	20	64	8	11	45
16 acre-feet...	47,534	267,894	80,374	24,372	655,252	381,242	95,698	178,312
17 From another drainage basin.....organizations...	...	...	...	1	...	...	...	...
18 acre-feet...	...	...	...	20,714	...	...	...	...
19 From drainage basin number.....D. B. No....	...	...	...	VI-G-8a	...	...	...	...
20 From natural sources within basin.....organizations...	19	35	35	18	61	8	11	42
21 acre-feet...	47,534	267,894	80,374	3,658	655,252	381,242	95,698	178,312
22 Surface water.....organizations...	19	35	35	18	61	8	11	42
23 acre-feet...	47,534	267,894	80,374	3,658	655,252	381,242	95,698	178,312
24 Ground water.....organizations...	...	...	...	...	...	...	...	...
25 acre-feet...	...	...	...	...	...	...	...	...
26 From other organizations in the basin.....organizations receiving...	...	...	...	1	10	1	...	9
27 acre-feet...	...	...	...	20,714	92,862	79,137	...	13,725
28 Total leaving conveyance systems.....organizations...	19	35	35	20	64	8	11	45
29 acre-feet...	47,534	267,894	80,374	24,372	655,252	381,242	95,698	178,312
30 Conveyance loss in basin.....organizations...	18	32	35	19	63	7	11	45
31 acre-feet...	6,493	28,448	15,903	2,121	182,648	136,311	15,966	30,371
32 Conveyed to another drainage basin.....organizations...	...	1	...	1	1	1	...	...
33 acre-feet...	...	102,320	...	14,335	20,714	20,714	...	...
34 To drainage basin number.....D. B. No....	...	VI-G-1	...	VI-G-1	...	VI-G-7	...	...
35 Delivered for use in the basin.....organizations...	19	33	35	19	63	7	11	45
36 acre-feet...	41,041	137,126	64,871	7,916	451,890	224,217	79,732	147,941
37 To farm irrigation water users.....organizations...	19	33	35	19	63	7	11	45
38 acre-feet...	41,041	137,126	64,724	7,916	447,523	222,487	79,682	145,354
39 To residential water users.....organizations...	...	...	1	...	8	1	...	7
40 acre-feet...	...	...	147	...	3,587	1,680	...	1,907
41 For other use.....organizations...	...	...	...	...	5	1	1	3
42 acre-feet...	...	...	...	...	780	50	50	680
43 Delivered in other irrigation organizations.....organizations delivering...	...	...	...	1	7	1	...	6
44 acre-feet...	...	...	...	20,714	92,862	79,137	...	13,725
45 Average delivery of irrigation water per acre irrigated as reported by organizations.....acre-feet...	4.0	3.2	5.4	1.1	3.3	2.7	5.3	3.9
46 NEW CAPITAL INVESTMENT, 1950-1959								
47 Expenditures for additional new works and equipment for irrigation and drainage, Jan. 1, 1950-Dec. 31, 1959.....organizations...	13	20	23	8	35	7	7	21
48 dollars...	65,506	127,066	42,625	619,696	10,373,970	9,774,369	201,870	397,731

IRRIGATION OF AGRICULTURAL LANDS

State Table 2.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950

Item (For definitions and explanations, see text)	Wyoming, total	Snake River above American Falls, Idaho	Bear River and Green River	Platte River	Yellowstone River direct, above Livingston, Clarks Fork direct, and Big Horn River	Yellowstone River excluding Big Horn River and Clarks Fork
		(I-H)	(III-E and IV-E)	(VI-D and VI-E)	(VI-F-1d, 4e, and VI-G)	(VI-F)
1 Irrigation organizations, total						
2 number.....organizations 1959...	686	83	104	162	224	131
1949...	693	107	63	161	232	129
3 Area irrigated as reported by						
4 organizations.....acres 1959...	1,057,540	54,498	177,286	(D)	439,585	98,359
1949...	839,939	54,310	123,791	(D)	399,237	79,181
5 Farm water users served directly....water users 1959...	8,962	728	833	(D)	4,596	964
6 Total water conveyed.....acre-feet 1959...	5,415,961	512,119	594,037	(D)	2,623,634	268,102
TYPE OF ORGANIZATION						
7 Mutual:						
8 Unincorporated.....organizations 1959...	521	69	80	113	161	97
1949...	538	90	41	132	175	100
9 Farm area irrigated directly.....acres 1959...	334,916	31,542	67,092	(D)	64,838	47,067
10 Farm water users served						
11 directly.....water users 1959...	2,358	436	339	(D)	574	460
Total water conveyed.....acre-feet 1959...	1,161,358	298,862	231,306	(D)	266,152	115,328
12 Incorporated.....organizations 1959...	113	12	18	15	34	34
1949...	120	15	18	20	38	28
14 Farm area irrigated directly.....acres 1959...	283,851	15,895	59,431	(D)	112,491	51,292
15 Farm water users served						
16 directly.....water users 1959...	2,503	220	298	(D)	1,099	504
Total water conveyed.....acre-feet 1959...	1,303,796	158,197	163,193	(D)	719,351	152,774
17 District.....organizations 1959...	37	2	6	9	20	...
18 1949...	27	(D)	3	7	16	...
19 Farm area irrigated directly.....acres 1959...	(D)	(D)	50,763	(D)	191,949	...
20 Farm water users served						
21 directly.....water users 1959...	(D)	(D)	196	(D)	2,431	...
Total water conveyed.....acre-feet 1959...	(D)	(D)	199,538	(D)	1,233,492	...
22 U. S. Bureau of Reclamation; projects and stor- age systems operated by bureau.....organizations 1959...	7	...	...	3	3	...
23 1949...	5	1	...	2	2	...
24 Farm area irrigated directly.....acres 1959...	40,540	...	...	...	40,540	...
25 Farm water users served						
26 directly.....water users 1959...	204	...	...	...	204	...
Total water conveyed.....acre-feet 1959...	210,089	...	...	...	210,089	...
27 U. S. Bureau of Reclamation; operated by water users.....organizations 1959...	12	...	1	4	7	...
28 1949...	NA	...	NA	NA	NA	...
29 Farm area irrigated directly.....acres 1959...	190,769	...	(D)	(D)	104,560	...
30 Farm water users served						
31 directly.....water users 1959...	1,763	...	(D)	(D)	1,091	...
Total water conveyed.....acre-feet 1959...	1,679,308	...	(D)	(D)	728,958	...
32 U. S. Bureau of Indian Affairs.....organizations 1959...	6	...	...	...	6	...
33 1949...	1	...	...	...	1	...
34 Farm area irrigated directly.....acres 1959...	29,767	...	...	...	29,767	...
35 Farm water users served						
36 directly.....water users 1959...	288	...	...	...	288	...
Total water conveyed.....acre-feet 1959...	194,550	...	...	...	194,550	...
37 Commercial.....organizations 1959...	1	...	...	1	...	...
38 1949...	2	...	1	...	...	1
39 Farm area irrigated directly.....acres 1959...	(D)	...	...	(D)	...	...
40 Farm water users served						
41 directly.....water users 1959...	(D)	...	...	(D)	...	...
Total water conveyed.....acre-feet 1959...	(D)	...	...	(D)	...	...
42 State.....organizations 1959...	...	...	...	...	...	...
43 1949...	...	...	...	...	...	...
44 Farm area irrigated directly.....acres 1959...	...	...	...	...	...	...
45 Farm water users served						
46 directly.....water users 1959...	...	...	...	...	...	...
Total water conveyed.....acre-feet 1959...	...	...	...	...	...	...
47 City.....organizations 1959...	1	...	...	1	...	...
48 1949...	...	...	...	...	...	...
49 Farm area irrigated directly.....acres 1959...	(D)	...	...	(D)	...	...
50 Farm water users served						
51 directly.....water users 1959...	(D)	...	...	(D)	...	...
Total water conveyed.....acre-feet 1959...	(D)	...	...	(D)	...	...

D Data not shown to avoid disclosure of information for individual organizations.
NA Not available.

State Table 2.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Continued

	Item (For definitions and explanations, see text)	Wyoming, total	Snake River above American Falls, Idaho	Bear River and Green River	Platte River	Yellowstone River direct, above Livingston, Clarks Fork direct, and Big Horn River	Yellowstone River excluding Big Horn River and Clarks Fork
			(I-H)	(III-E and IV-E)	(VI-D and VI-E)	(VI-F-1d, 4e, and VI-C)	(VI-F)
TYPE OF SERVICE, 1959							
1	All water directly from surface and						
2	ground water sources.....organizations...	613	74	103	110	207	118
3	Total water conveyed.....acre-feet...	4,836,975	455,699	589,277	1,172,425	2,400,740	214,994
4	Water delivered.....acre-feet...	3,475,311	353,678	496,172	624,310	1,823,345	177,230
5	To farm and residential						
6	users only.....organizations...	587	71	102	107	195	111
7	acre-feet...	2,476,965	288,258	492,041	299,867	1,236,458	159,765
8	To farm and residential users and other						
9	irrigation organizations.....organizations...	17	2	1	3	10	1
10	Water to farm and residential						
11	users.....acre-feet...	488,759	28,080	3,331	107,273	345,803	4,272
12	Water to other irrigation						
13	organizations.....acre-feet...	455,328	11,420	800	217,170	220,370	5,568
14	To other irrigation organizations						
15	only.....organizations...	6	1	...	...	1	4
16	acre-feet...	54,299	25,920	...	...	20,714	7,625
17	Part of water from other						
18	organizations.....organizations...	27	7	1	2	10	7
19	Total water conveyed.....acre-feet...	309,907	45,000	4,760	42,020	165,019	53,108
20	From surface and ground water						
21	sources.....acre-feet...	63,279	19,080	3,960	24,634	1-18,190	33,795
22	From other irrigation						
23	organizations.....acre-feet...	246,628	25,920	800	17,386	183,209	19,313
24	Water delivered.....acre-feet...	230,335	40,500	4,284	35,813	107,989	41,749
25	To farm and residential						
26	users only.....organizations...	25	7	1	2	10	5
27	acre-feet...	219,938	40,500	4,284	35,813	107,989	31,352
28	To farm and residential users and other						
29	irrigation organizations.....organizations...	2	...	...	...	...	2
30	Water to farm and residential						
31	users.....acre-feet...	4,277	...	...	...	...	4,277
32	Water to other irrigation						
33	organizations.....acre-feet...	6,120	...	...	...	...	6,120
34	To other irrigation organizations						
35	only.....organizations...	...	...	...	...	...	...
36	acre-feet...	...	...	...	...	...	...
37	All of water from other						
38	organizations.....organizations...	35	2	...	27	6	...
39	Total water conveyed.....acre-feet...	269,079	11,420	...	199,784	57,875	...
40	Water delivered.....acre-feet...	105,773	8,855	...	50,354	46,564	...
41	To farm and residential						
42	users only.....organizations...	35	2	...	27	6	...
43	acre-feet...	105,773	8,855	...	50,354	46,564	...
44	To farm and residential users and other						
45	irrigation organizations.....organizations...	...	...	...	...	...	...
46	Water to farm residential						
47	users.....acre-feet...	...	...	...	...	...	...
48	Water to other irrigation						
49	organizations.....acre-feet...	...	...	...	...	...	...
50	To other irrigation organizations						
51	only.....organizations...	...	...	...	...	...	...
52	acre-feet...	...	...	...	...	...	...
53	No water conveyed.....organizations...	11	...	...	3	1	6
WATER FROM OTHER SOURCES							
54	Organizations reporting no water from						
55	other sources used on land served						
56	by the organization.....organizations...	643	79	99	135	213	116
57	acre served.....	1,300,767	65,797	201,567	445,254	478,204	108,985
58	acres irrigated.....	1,198,763	60,905	176,965	432,387	432,945	94,601
59	Water delivered to farms.....acre-feet...	1,450,251	355,311	493,287	700,405	1,705,940	191,852
60	acre-feet per acre...	2.9	5.8	2.8	1.6	3.9	2.0
61	Organizations reporting water from other						
62	sources used on land served by the						
63	organization.....organizations...	23	3	5	4	8	3
64	acre served.....	46,896	10,567	8,279	10,014	11,226	6,810
65	acres irrigated.....	38,100	9,705	7,616	9,314	6,967	3,898
66	Water delivered to farms.....acre-feet...	96,671	24,339	15,188	23,959	25,949	7,236
67	acre-feet per acre...	2.5	2.5	2.0	2.4	3.7	1.9

¹Water was transferred to the basin and released to natural stream channels in excess of the quantity of surface water withdrawn by irrigation organizations. The net effect was to increase the available surface water supply in the basin or State.

State Table 2.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, TYPE OF SERVICE, QUANTITY OF WATER DELIVERED PER ACRE, AND SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Continued

Item (For definitions and explanations, see text)	Wyoming, total	Snake River above American Falls, Idaho	Bear River and Green River	Platte River	Yellowstone River direct, above Livingston, Clarks Fork direct, and Big Horn River	Yellowstone River excluding Big Horn River and Clarks Fork
	(I-H)	(III-E and IV-E)	(VI-D and VI-E)	(VI-F-1d, 4e, and VI-C)	(VI-F)	
WATER DELIVERED PER ACRE						
Organizations reporting no water from other sources used on same land:						
0.1 to 0.9 acre-feet per acre.....organizations...	44	...	5	11	18	9
1.0 to 1.9 acre-feet per acre.....organizations...	42,894	...	3,984	28,139	6,654	4,117
2.0 to 2.9 acre-feet per acre.....organizations...	176	6	35	74	13	49
3.0 to 3.9 acre-feet per acre.....organizations...	479,080	9,978	84,620	314,706	20,643	49,535
4.0 to 4.9 acre-feet per acre.....organizations...	154	11	29	30	42	42
5.0 to 5.9 acre-feet per acre.....organizations...	253,650	7,941	47,527	66,485	104,943	26,754
6.0 to 6.9 acre-feet per acre.....organizations...	105	4	8	15	66	11
7.0 to 7.9 acre-feet per acre.....organizations...	164,524	1,276	6,472	20,884	121,962	12,970
8.0 to 8.9 acre-feet per acre.....organizations...	68	10	8	3	42	5
9.0 to 9.9 acre-feet per acre.....organizations...	95,038	2,685	13,954	1,545	75,629	1,225
10.0 or more acre-feet per acre.....organizations...	32	7	6	1	18	...
11.0 to 11.9 acre-feet per acre.....organizations...	79,363	7,409	6,592	550	64,812	...
12.0 to 12.9 acre-feet per acre.....organizations...	18	10	1	1	6	...
13.0 to 13.9 acre-feet per acre.....organizations...	25,424	10,965	350	80	14,029	...
14.0 to 14.9 acre-feet per acre.....organizations...	17	10	5	...	2	...
15.0 to 15.9 acre-feet per acre.....organizations...	34,461	8,695	4,743	...	21,023	...
16.0 to 16.9 acre-feet per acre.....organizations...	15	7	2	...	6	...
17.0 to 17.9 acre-feet per acre.....organizations...	15,615	3,642	8,723	...	3,250	...
18.0 to 18.9 acre-feet per acre.....organizations...	14	...	...	...	...	...
19.0 to 19.9 acre-feet per acre.....organizations...	8,734	8,734	...	...	...	...
20.0 or more acre-feet per acre.....organizations...	...	...	...	...	...	...
SIZE OF ORGANIZATION						
Size of organization (number of farm irrigation water users served directly):						
None.....organizations...	20	1	...	3	3	12
1 to 3.....organizations...	307	29	...	68	97	69
4 to 9.....organizations...	736	70	123	166	225	152
10 to 29.....organizations...	202	28	29	40	75	29
30 to 99.....organizations...	1,106	162	162	203	405	168
100 to 299.....organizations...	1,106	162	162	203	405	168
300 to 999.....organizations...	1,639	285	370	275	349	360
1,000 or more.....organizations...	34	7	3	7	12	5
100 to 299.....water users...	1,977	348	195	448	700	286
300 to 999.....water users...	13	...	...	2	11	...
1,000 or more.....water users...	1,960	...	...	286	1,674	...
300 to 999.....organizations...	5	...	...	2	3	...
1,000 or more.....water users...	2,378	...	...	1,131	1,247	...
1,000 or more.....organizations...	1	...	...	1	...	...
1,000 or more.....water users...	1,512	...	...	1,512	...	...
Size of organization (acre-feet of water delivered directly to farms):						
None.....organizations...	20	1	...	3	3	12
1 to 299 acre-feet.....organizations...	90	3	7	17	40	23
300 to 999 acre-feet.....organizations...	15,858	424	1,421	3,182	6,445	4,386
1,000 to 2,999 acre-feet.....organizations...	178	25	25	37	46	45
3,000 to 9,999 acre-feet.....organizations...	107,625	16,115	14,362	21,528	27,425	28,195
10,000 to 29,999 acre-feet.....organizations...	202	18	29	52	69	34
30,000 to 99,999 acre-feet.....organizations...	349,147	34,275	52,039	90,422	114,510	57,901
100,000 or more acre-feet.....organizations...	128	26	29	23	34	15
10,000 to 29,999 acre-feet.....organizations...	661,913	127,475	138,667	126,771	177,290	78,254
30,000 to 99,999 acre-feet.....organizations...	58	10	10	4	13	...
100,000 or more acre-feet.....organizations...	571,290	197,761	131,148	59,742	192,297	30,352
100,000 or more acre-feet.....organizations...	26	4	4	5	16	...
100,000 or more acre-feet.....organizations...	1,309,022	33,600	170,838	272,740	831,844	...
100,000 or more acre-feet.....organizations...	4	...	...	1	3	...
100,000 or more acre-feet.....organizations...	532,067	...	...	149,979	382,088	...
Size of organization (acre-feet of water conveyed):						
None.....organizations...	11	...	...	3	...	6
1 to 299 acre-feet.....organizations...	68	...	...	12	31	17
300 to 999 acre-feet.....organizations...	12,127	470	950	2,479	4,955	3,273
1,000 to 2,999 acre-feet.....organizations...	168	17	24	35	47	45
3,000 to 9,999 acre-feet.....organizations...	100,805	10,985	13,684	20,385	28,993	27,138
10,000 to 29,999 acre-feet.....organizations...	210	22	29	51	69	39
30,000 to 99,999 acre-feet.....organizations...	380,470	36,903	54,136	90,771	130,808	67,832
100,000 or more acre-feet.....organizations...	145	26	32	28	39	19
10,000 to 29,999 acre-feet.....organizations...	796,849	140,740	172,726	152,628	227,348	99,567
30,000 to 99,999 acre-feet.....organizations...	53	10	13	7	18	9
100,000 or more acre-feet.....organizations...	882,682	232,260	153,312	108,912	324,160	70,252
100,000 or more acre-feet.....organizations...	23	2	4	3	14	...
100,000 or more acre-feet.....organizations...	1,353,904	90,160	200,239	188,604	874,901	...
100,000 or more acre-feet.....organizations...	8	...	...	3	...	...
100,000 or more acre-feet.....organizations...	1,894,462	...	...	856,819	1,037,643	...

State Table 3.—LAND IRRIGATED BY SOURCE OF WATER, BY DRAINAGE BASINS: CENSUS OF 1959

	Item (For definitions and explanations, see text)	Wyoming, total	Snake River above American Falls, Idaho (I-H)	Bear River and Green River (III-E and IV-E)	Platte River (VI-D and VI-E)	Yellowstone River direct, above Livingston, Clarks Fork direct, and Big Horn River (VI-F-I'd, 4a, and VI-G)	Yellowstone River excluding Big Horn River and Clarks Fork (VI-F)
1	Total acres irrigated.....farms reporting...	6,412	475	767	1,813	2,623	602
2	acres...	1,469,911	64,873	321,734	525,082	437,931	100,812
3	Acres irrigated by sprinklers.....farms reporting...	293	54	35	101	26	43
4	acres...	17,028	3,444	2,398	5,154	1,050	2,077
5	Sprinklers only.....farms reporting...	111	24	8	38	3	14
6	acres...	7,601	2,089	467	2,190	187	427
	LAND IRRIGATED, BY SOURCE OF WATER TO INDIVIDUAL FARMS, 1959						
7	Ground water sources on farm.....farms reporting...	338	16	31	218	34	13
8	acres...	33,499	687	2,507	24,366	3,602	290
9	Ground water sources on farm only.....farms reporting...	158	6	16	101	7	8
10	acres...	18,817	352	1,242	15,489	181	125
11	Surface sources on farm.....farms reporting...	2,213	197	431	698	508	275
12	acres...	723,133	32,549	211,627	316,029	96,960	49,478
13	Surface sources on farm only.....farms reporting...	1,887	177	372	608	418	213
14	acres...	638,873	30,666	189,940	288,786	74,862	39,165
15	Irrigation organization sources.....farms reporting...	4,279	287	365	1,066	2,177	377
16	acres...	713,279	31,637	107,600	184,687	337,369	51,044
17	Irrigation organization sources only.....farms reporting...	3,926	266	311	925	2,099	318
18	acres...	629,415	29,648	90,696	146,109	318,231	43,789
19	Both farm ground water sources and surface sources.....farms reporting...	77	5	11	33	19	3
20	acres...	23,298	420	4,425	10,917	5,384	497
21	Both irrigation organization and farm ground water or farm surface sources.....farms reporting...	364	21	57	146	80	60
22	acres...	159,508	3,787	35,431	63,781	39,273	17,226

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950

Item (For definitions and explanations, see text)	Wyoming, total						
	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users	
Irrigation organizations.....organizations 1959.....	686	521	113	37	7	12	8
1949.....	693	538	120	27	5	NA	3
Service area, 1959:							
Area served, as reported							
by organizations.....acres...	1,166,907	377,983	314,633	(D)	42,730	201,390	(D)
Area irrigated, as reported							
by organizations.....acres...	1,057,540	334,916	283,851	(D)	40,540	190,769	(D)
Water users served, 1959, total.....water users...	10,347	2,322	2,729	(D)	204	1,789	(D)
Farm irrigation water users.....water users...	8,962	2,358	2,503	(D)	204	1,763	(D)
Residential water users.....water users...	1,373	159	222	(D)	...	25	...
Other water users.....water users...	12	3	4	4	...	1	1
TYPE OF SERVICE, 1959							
All water directly from surface and ground							
water sources.....organizations...	613	476	98	30	1	8	8
Total water conveyed.....acre-feet...	4,836,975	1,058,834	1,167,059	(D)	154,296	1,429,872	(D)
Water delivered.....acre-feet...	3,475,311	877,831	881,246	(D)	86,714	791,712	(D)
To farm and residential users							
only.....organizations...	587	474	84	20	1	3	8
acre-feet...	2,476,965	849,549	798,933	(D)	86,714	134,279	(D)
To farm and residential users and other							
irrigation organizations.....organizations...	17	...	9	8	...	4	...
Water to farm and residential							
users.....acre-feet...	488,759	...	47,787	(D)	...	313,776	...
Water to other irrigation							
organizations.....acre-feet...	455,328	...	29,263	(D)	...	322,943	...
To other irrigation organizations							
only.....organizations...	6	2	3	1	...	20,714	...
acre-feet...	54,259	28,282	5,263	(D)	...	...	...
Part of water from other							
organizations.....organizations...	27	14	10	2	1	...	...
Total water conveyed.....acre-feet...	309,907	58,229	113,517	(D)	55,793	73,088	...
From surface and ground water							
sources.....acre-feet...	63,279	20,034	55,329	(D)	1-23,344	4,000	...
From other irrigation organizations.....acre-feet...	246,628	38,215	58,188	(D)	73,137	6,088	...
Water delivered.....acre-feet...	230,335	51,153	91,718	(D)	39,696	34,328	...
To farm and residential users							
only.....organizations...	25	14	8	2	1	...	...
acre-feet...	219,938	51,153	81,321	(D)	39,696	34,328	...
To farm and residential users and other							
irrigation organizations.....organizations...	2	...	2	...	...	...	...
Water to farm and residential							
users.....acre-feet...	4,277	...	4,277	...	...	...	...
Water to other irrigation							
organizations.....acre-feet...	6,120	...	6,120	...	...	...	...
To other irrigation organizations							
only.....organizations...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
All of water from other organizations.....organizations...	35	29	1	5	...	3	...
Total water conveyed.....acre-feet...	269,079	44,295	23,220	(D)	...	176,348	...
Water delivered.....acre-feet...	105,773	40,081	20,124	(D)	...	25,160	...
To farm and residential users							
only.....organizations...	35	29	1	5	...	3	...
acre-feet...	105,773	40,081	20,124	(D)	...	25,160	...
To farm and residential users and other							
irrigation organizations.....organizations...	...	...	...	...	...	...	...
Water to farm and residential							
users.....acre-feet...	...	...	...	...	...	...	...
Water to other irrigation							
organizations.....acre-feet...	...	...	...	...	...	...	...
To other irrigation organizations							
only.....organizations...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
No water conveyed.....organizations...	11	2	4	...	5	...	...
WATER FROM OTHER SOURCES							
Organizations reporting no water from other							
sources used on the land served by the							
organization.....organizations...	643	506	94	33	2	10	8
acres served.....	1,300,767	369,976	305,639	(D)	42,730	201,390	(D)
acres irrigated.....	1,198,763	329,140	279,859	(D)	40,540	190,769	(D)
water delivered to farms (acre-feet)...	2,450,251	928,609	895,683	(D)	126,410	507,528	(D)
acre-feet per acre...	2.9	2.8	3.2	(D)	3.1	2.7	(D)
Organizations reporting water from other							
sources used on land served by the							
organization.....organizations...	23	11	10	2	...	...	...
acres served.....	46,896	10,824	31,674	(D)	...	...	...
acres irrigated.....	38,100	8,193	26,172	(D)	...	...	...
water delivered to farms (acre-feet)...	96,671	16,236	75,534	(D)	...	...	...
acre-feet per acre...	2.5	2.0	2.9	(D)	...	...	...
NEW CAPITAL INVESTMENT, 1950-1959							
Expenditures for additional new works and							
equipment for irrigation and drainage							
January 1, 1950-December 31, 1959.....organizations...	379	269	73	25	6	10	6
By U. S. B. R.....dollars...	24,427,288	...	...	(D)	18,748,344	5,678,944	...
By water users organizations.....dollars...	4,748,845	544,391	1,157,374	(D)	...	2,174,208	(D)
See footnotes at end of table.							

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

Item (For definitions and explanations, see text)	Wyoming, total						
	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users	
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
Total entering conveyance systems.....organizations... acre-feet...	675 4,900,254	519 1,078,848	109 1,222,388	37 (D)	2 130,952	12 1,433,872	8 (D)
From another drainage basin.....organizations... acre-feet...	3 10,320	... ...	3 10,320	......	......	......	......
From drainage basin.....D. B. No....	...	...	...	...	...	...	...
From sources within basin.....organizations... acre-feet...	638 4,889,934	490 1,078,848	106 1,212,048	32 (D)	2 130,952	9 1,433,872	8 (D)
Surface water.....organizations... acre-feet...	632 4,883,524	485 1,074,598	105 1,209,908	32 (D)	2 130,952	9 1,433,872	8 (D)
Ground water.....organizations... acre-feet...	7 6,410	6 4,290	... 2,160	......	......	......	......
From other organizations in the basin.....organizations receiving... acre-feet...	62 515,707	43 82,510	11 81,408	7 (D)	1 79,137	4 245,436	......
Total leaving conveyance systems.....organizations... acre-feet...	675 4,900,254	519 1,133,076	109 1,263,130	37 (D)	2 210,089	12 1,335,651	8 (D)
Conveyance loss in basin.....organizations... acre-feet...	653 1,015,555	503 182,862	106 275,410	34 (D)	2 83,679	9 290,851	8 (D)
Conveyed to another drainage basin.....organizations... acre-feet...	15 579,444	4 9,379	8 32,858	3 (D)	... ...	3 537,207	......
To drainage basin number.....D. B. No....	...	...	...	...	...	...	...
Delivered for use in the basin.....organizations... acre-feet...	659 3,305,255	515 940,835	100 954,882	34 (D)	2 126,410	10 507,593	8 (D)
To farm irrigation water users.....organizations... acre-feet...	659 3,278,182	515 938,326	100 941,728	34 (D)	2 126,410	10 507,528	8 (D)
To domestic water users.....organizations... acre-feet...	29 17,530	13 2,437	8 10,714	8 (D)	1 ...	1 15	... (D)
For other use.....organizations... acre-feet...	9 9,543	2 52	3 2,440	3 (D)	1 ...	1 50	... (D)
Delivered to other irrigation organizations.....organizations delivering... acre-feet...	25 515,707	2 28,282	14 40,646	9 (D)	... ...	5 343,637	......
SIZE OF ORGANIZATION, 1959							
Size of organization (number of farm irrigation water users):							
None.....organizations...	20	4	9	(D)	5	1	(D)
1 to 3 water users.....organizations...	307	299	7	(D)	...	...	(D)
4 to 9 water users.....organizations...	202	167	31	(D)	...	...	(D)
10 to 29 water users.....organizations...	104	49	43	(D)	...	...	(D)
30 to 99 water users.....organizations...	34	2	20	(D)	1	2	(D)
100 to 299 water users.....organizations...	13	...	3	(D)	1	3	(D)
300 to 999 water users.....organizations...	5	...	...	(D)	...	4	(D)
1,000 or more water users.....organizations...	1	...	...	(D)	...	1	(D)
Size of organization (acre-feet of water delivered directly to farms):							
None.....organizations...	20	4	9	(D)	5	2	(D)
1 to 299 acre-feet.....organizations...	90	86	3	(D)	...	...	(D)
300 to 999 acre-feet.....organizations...	178	169	8	(D)	...	...	(D)
1,000 to 2,999 acre-feet.....organizations...	202	172	28	(D)	...	...	(D)
3,000 to 9,999 acre-feet.....organizations...	128	79	40	(D)	...	1	(D)
10,000 to 29,999 acre-feet.....organizations...	38	11	19	(D)	...	1	(D)
30,000 to 99,999 acre-feet.....organizations...	26	...	5	(D)	2	5	(D)
100,000 or more acre-feet.....organizations...	4	...	1	(D)	...	2	(D)
Size of organization (acre-feet of water conveyed):							
None.....organizations...	11	2	4	(D)	5	...	(D)
1 to 299 acre-feet.....organizations...	68	65	2	(D)	...	...	(D)
300 to 999 acre-feet.....organizations...	168	161	7	(D)	...	...	(D)
1,000 to 2,999 acre-feet.....organizations...	210	183	23	(D)	...	...	(D)
3,000 to 9,999 acre-feet.....organizations...	145	93	45	(D)	...	2	(D)
10,000 to 29,999 acre-feet.....organizations...	53	15	25	(D)	...	2	(D)
30,000 to 99,999 acre-feet.....organizations...	23	...	5	(D)	1	3	(D)
100,000 or more acre-feet.....organizations...	8	...	2	(D)	1	5	(D)

D Data not shown to avoid disclosure of information for individual organizations.

NA Not available.

*Water was transferred to the basin and released to natural stream channels in excess of the quantity of surface water withdrawn by irrigation organizations. The net effect was to increase the available surface water supply in the basin or State.

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950-59.

Item (For definitions and explanations, see text)	Snake River above American Falls, Idaho (I-H)						
	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users	
Irrigation organizations.....organizations 1959...	83	69	12	2	...	...	...
1949.....	107	90	15	1	1	NA	...
Service area, 1959:							
Area served, as reported							
by organizations.....acres...	59,752	34,889	17,640	(D)	...	...	...
Area irrigated, as reported							
by organizations.....acres...	54,498	31,542	15,895	(D)	...	...	...
Water users served, 1959, total.....water users...	821	462	287	(D)	...	...	...
Farm irrigation water users.....water users...	728	436	220	(D)	...	...	...
Residential water users.....water users...	93	26	67	...	...	...	...
Other water users.....water users...	...	...	...	...	...	...	...
TYPE OF SERVICE, 1959							
All water directly from surface and ground							
water sources.....organizations...	74	61	12	1	...	...	...
Total water conveyed.....acre-feet...	455,699	252,702	158,197	(D)	...	...	...
Water delivered.....acre-feet...	353,678	210,106	109,972	(D)	...	...	...
To farm and residential users							
only.....organizations...	71	60	1	1	...	...	...
acre-feet...	288,258	184,186	70,472	(D)	...	...	...
To farm and residential users and other							
irrigation organizations.....organizations...	2	...	2	...	...	...	...
Water to farm and residential							
users.....acre-feet...	28,080	...	28,080	...	...	...	...
Water to other irrigation							
organizations.....acre-feet...	11,420	...	11,420	...	...	...	...
To other irrigation organizations							
only.....organizations...	1	1	...	...	...	...	...
acre-feet...	25,920	25,920	...	...	...	...	...
Part of water from other							
organizations.....organizations...	7	7	...	...	...	...	...
Total water conveyed.....acre-feet...	45,000	45,000	...	...	...	...	...
From surface and ground water							
sources.....acre-feet...	19,080	19,080	...	...	...	...	...
From other irrigation organizations.....acre-feet...	25,920	25,920	...	...	...	...	...
Water delivered.....acre-feet...	40,500	40,500	...	...	...	...	...
To farm and residential users							
only.....organizations...	7	7	...	...	...	...	...
acre-feet...	40,500	40,500	...	...	...	...	...
To farm and residential users and other							
irrigation organizations.....organizations...	...	...	...	...	...	...	...
Water to farm and residential							
users.....acre-feet...	...	...	...	...	...	...	...
Water to other irrigation							
organizations.....acre-feet...	...	...	...	...	...	...	...
To other irrigation organizations							
only.....organizations...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
All of water from other organizations.....organizations...	2	1	...	1	...	...	...
Total water conveyed.....acre-feet...	11,420	1,160	...	(D)	...	...	...
Water delivered.....acre-feet...	8,855	1,160	...	(D)	...	...	...
To farm and residential users							
only.....organizations...	2	1	...	...	...	...	...
acre-feet...	8,855	1,160	...	(D)	...	...	...
To farm and residential users and other							
irrigation organizations.....organizations...	...	...	...	...	...	...	...
Water to farm and residential							
users.....acre-feet...	...	...	...	...	...	...	...
Water to other irrigation							
organizations.....acre-feet...	...	...	...	...	...	...	...
To other irrigation organizations							
only.....organizations...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
No water conveyed.....organizations...	...	...	...	...	...	...	...
WATER FROM OTHER SOURCES							
Organizations reporting no water from other							
sources used on the land served by the							
organization.....organizations...	79	67	10	2	...	...	...
acres served...	65,797	35,584	22,990	(D)	...	...	...
water delivered to farms (acre-feet)...	60,905	32,309	21,535	(D)	...	...	...
355,311	225,791	88,225	(D)	...	...	...	...
acre-feet per acre...	5.8	7.0	4.0	(D)	...	...	...
Organizations reporting water from other							
sources used on land served by the							
organization.....organizations...	3	1	2	...	...	...	...
acres served...	10,567	672	9,895	...	...	...	...
water delivered to farms (acre-feet)...	9,705	600	9,105	...	...	...	...
24,339	2,436	21,903	...	...	...	...	...
acre-feet per acre...	2.5	4.0	2.4	...	...	...	...
NEW CAPITAL INVESTMENT, 1950-1959							
Expenditures for additional new works and							
equipment for irrigation and drainage,							
January 1, 1950-December 31, 1959.....organizations...	45	38	5	2	...	...	...
By U. S. B. R.....dollars...	...	...	...	...	...	...	...
By water users organizations.....dollars...	193,152	111,554	40,567	(D)	...	...	...

See footnotes at end of table.

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

Item (For definitions and explanations, see text)	Snake River above American Falls, Idaho (I-H)						
	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users	
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
Total entering conveyance systems.....organizations... acre-feet.....	83 474,779	69 271,782	12 158,197	2 (D)	...	...	...
From another drainage basin.....organizations... acre-feet.....	...	...	...	...	...	...	...
From drainage basin.....D. B. No.....	...	...	...	...	...	...	...
From sources within basin.....organizations... acre-feet.....	81 474,779	68 271,782	12 158,197	1 (D)	...	...	...
Surface water.....organizations... acre-feet.....	76 470,829	63 267,832	12 158,197	1 (D)	...	...	...
Ground water.....organizations... acre-feet.....	5 3,950	5 3,950	...	...	...	...	...
From other organizations in the basin..... organizations receiving... acre-feet.....	9 37,340	8 27,080	...	1 (D)	...	...	...
Total leaving conveyance systems.....organizations... acre-feet.....	83 474,779	69 272,942	12 146,777	2 (D)	...	...	...
Conveyance loss in basin.....organizations... acre-feet.....	81 83,017	67 43,207	12 26,045	2 (D)	...	...	...
Conveyed to another drainage basin.....organizations... acre-feet.....	7 26,069	2 3,889	5 22,180	...	...	...	...
To drainage basin number.....D. B. No.....	...	...	...	...	...	...	...
Delivered for use in the basin.....organizations... acre-feet.....	76 365,693	66 225,846	8 98,552	2 (D)	...	...	...
To farm irrigation water users.....organizations... acre-feet.....	76 356,581	66 225,338	8 89,948	2 (D)	...	...	...
To domestic water users.....organizations... acre-feet.....	8 9,112	3 508	5 8,604	...	...	...	...
For other use.....organizations... acre-feet.....	...	...	...	...	...	...	...
Delivered to other irrigation organizations..... organizations delivering... acre-feet.....	3 37,340	1 25,920	2 11,420	...	...	...	...
SIZE OF ORGANIZATION, 1959							
Size of organization (number of farm irrigation water users):							
None.....organizations... 1 to 3 water users.....organizations... 4 to 9 water users.....organizations... 10 to 29 water users.....organizations... 30 to 99 water users.....organizations... 100 to 299 water users.....organizations... 300 to 999 water users.....organizations... 1,000 or more water users.....organizations...	1 29 28 18 7	1 28 27 12 1 ... ... ...	... 1 1 5 5	(D) (D) (D) (D) (D) ... ... ...	...	...	...
Size of organization (acre-feet of water delivered directly to farms):							
None.....organizations... 1 to 299 acre-feet.....organizations... 300 to 999 acre-feet.....organizations... 1,000 to 2,999 acre-feet.....organizations... 3,000 to 9,999 acre-feet.....organizations... 10,000 to 29,999 acre-feet.....organizations... 30,000 to 99,999 acre-feet.....organizations... 100,000 or more acre-feet.....organizations...	1 3 25 18 26 9 1 ...	1 3 24 17 19 5 ... ...	... ... 1 6 4 1	(D) (D) (D) (D) (D) (D) (D) ...	...	...	...
Size of organization (acre-feet of water conveyed):							
None.....organizations... 1 to 299 acre-feet.....organizations... 300 to 999 acre-feet.....organizations... 1,000 to 2,999 acre-feet.....organizations... 3,000 to 9,999 acre-feet.....organizations... 10,000 to 29,999 acre-feet.....organizations... 30,000 to 99,999 acre-feet.....organizations... 100,000 or more acre-feet.....organizations...	... 3 17 22 26 13 2 ...	... 3 17 22 20 8 ... ...	... ... ... 1 6 4 1 ...	(D) (D) (D) (D) (D) (D) (D) ...	...	...	...

D Data not shown to avoid disclosure of information for individual organizations.
NA Not available.

Item (For definitions and explanations, see text)	Bear River and Green River (III-E and IV-E)						
	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users	
Irrigation organizations.....organizations 1959...	104	80	18	6	...	1	...
1949.....	63	41	18	3	...	NA	1
Service area, 1959:							
Area served, as reported							
by organizations.....acres...	202,551	74,010	67,375	61,166	...	(0)	...
Area irrigated, as reported							
by organizations.....acres...	177,286	67,092	59,431	50,763	...	(0)	...
Water users served, 1959, total.....water users...	854	360	298	196	...	(0)	...
Farm irrigation water users.....water users...	433	139	298	196	...	(0)	...
Residential water users.....water users...	21	21	...	...	...	...	...
Other water users.....water users...	...	...	...	...	...	...	...
TYPE OF SERVICE, 1959							
All water directly from surface and ground							
water sources.....organizations...	103	80	17	6	...	1	...
Total water conveyed.....acre-feet...	589,277	231,306	158,433	199,538	...	(0)	...
Water delivered.....acre-feet...	496,172	198,503	130,204	167,465	...	(0)	...
To farm and residential users							
only.....organizations...	102	80	16	6	...	1	...
acre-feet...	492,041	198,503	126,073	167,465	...	(0)	...
To farm and residential users and other							
irrigation organizations.....organizations...	1	...	1	...	...	...	...
Water to farm and residential							
users.....acre-feet...	3,331	...	3,331	...	...	...	...
Water to other irrigation							
organizations.....acre-feet...	800	...	800	...	...	...	...
To other irrigation organizations							
only.....organizations...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
Part of water from other							
organizations.....organizations...	1	...	1	...	...	...	...
Total water conveyed.....acre-feet...	4,760	...	4,760	...	...	...	...
From surface and ground water							
sources.....acre-feet...	3,960	...	3,960	...	...	...	...
From other irrigation organizations.....acre-feet...	800	...	800	...	...	...	...
Water delivered.....acre-feet...	4,284	...	4,284	...	...	...	...
To farm and residential users							
only.....organizations...	1	...	1	...	...	...	...
acre-feet...	4,284	...	4,284	...	...	...	...
To farm and residential users and other							
irrigation organizations.....organizations...	...	...	...	...	...	...	...
Water to farm and residential							
users.....acre-feet...	...	...	...	...	...	...	...
Water to other irrigation							
organizations.....acre-feet...	...	...	...	...	...	...	...
To other irrigation organizations							
only.....organizations...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
All of water from other organizations.....organizations...	...	...	...	...	...	...	...
Total water conveyed.....acre-feet...	...	...	...	...	...	...	...
Water delivered.....acre-feet...	...	...	...	...	...	...	...
To farm and residential users							
only.....organizations...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
To farm and residential users and other							
irrigation organizations.....organizations...	...	...	...	...	...	...	...
Water to farm and residential							
users.....acre-feet...	...	...	...	...	...	...	...
Water to other irrigation							
organizations.....acre-feet...	...	...	...	...	...	...	...
To other irrigation organizations							
only.....organizations...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
No water conveyed.....organizations...	...	...	...	...	...	...	...
WATER FROM OTHER SOURCES							
Organizations reporting no water from other							
sources used on the land served by the							
organization.....organizations...	99	77	17	5	...	1	...
acres served...	201,567	70,231	72,820	58,516	...	(0)	...
acres irrigated...	176,965	63,313	64,876	48,776	...	(0)	...

See footnotes at end of table.

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

Item (For definitions and explanations, see text)	Bear River and Green River (III-E and IV-E)						
	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users	
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
Total entering conveyance systems.....organizations... acre-feet...	104 593,237	80 231,306	18 162,393	6 199,538	...	1 (D)	...
From another drainage basin.....organizations... acre-feet...	3 10,320	...	3 10,320	...	...	...	...
From drainage basin.....D. B. No.....	...	...	...	...	...	...	...
From sources within basin.....organizations... acre-feet...	102 582,937	80 231,306	16 152,073	6 199,538	...	1 (D)	...
Surface water.....organizations... acre-feet...	102 582,917	80 231,306	16 152,073	6 199,538	...	1 (D)	...
Ground water.....organizations... acre-feet...	...	...	...	...	...	...	...
From other organizations in the basin.....organizations receiving... acre-feet...	1 800	...	1 800	...	...	...	...
Total leaving conveyance systems.....organizations... acre-feet...	104 593,237	80 231,306	18 162,393	6 199,538	...	1 (D)	...
Conveyance loss in basin.....organizations... acre-feet...	100 83,183	77 32,803	17 18,307	6 32,073	...	1 (D)	...
Conveyed to another drainage basin.....organizations... acre-feet...	2 10,398	...	2 10,398	...	...	...	...
To drainage basin number.....D. B. No.....	...	...	...	...	...	...	...
Delivered for use in the basin.....organizations... acre-feet...	104 499,656	80 198,503	18 133,688	6 167,465	...	1 (D)	...
To farm irrigation water users.....organizations... acre-feet...	104 499,446	80 198,293	18 133,688	6 167,465	...	1 (D)	...
To domestic water users.....organizations... acre-feet...	2 210	...	2 210	...	...	...	...
For other use.....organizations... acre-feet...	...	...	...	...	...	...	...
Delivered to other irrigation organizations.....organizations delivering... acre-feet...	1 800	...	1 800	...	...	...	...
SIZE OF ORGANIZATION, 1959							
Size of organization (number of farm irrigation water users):							
None.....organizations... 1 to 3 water users.....organizations...	...	...	...	...	...	...	...
4 to 9 water users.....organizations...	21 29	24 49	2 4	...	...	...	...
10 to 29 water users.....organizations...	21 3	7 ...	11 1	...	...	...	...
30 to 99 water users.....organizations...	...	...	...	...	...	...	...
100 to 299 water users.....organizations...	...	...	...	...	...	...	...
300 to 999 water users.....organizations...	...	...	...	...	...	...	...
1,000 or more water users.....organizations...	...	...	...	...	...	...	...
Size of organization (acre-feet of water delivered directly to farms):							
None.....organizations... 1 to 299 acre-feet.....organizations...	...	...	...	...	...	...	...
300 to 999 acre-feet.....organizations...	7 25	7 25	...	...	...	...	...
1,000 to 2,999 acre-feet.....organizations...	29 3	25 ...	3 1	...	...	...	...
3,000 to 9,999 acre-feet.....organizations...	29 10	19 ...	10...	...	...	...	...
10,000 to 29,999 acre-feet.....organizations...	4 4	4 ...	2...	...	...	...	...
30,000 to 99,999 acre-feet.....organizations...	4 ...	...	1 ...	3...	...	...	...
100,000 or more acre-feet.....organizations...	...	...	...	...	...	...	...
Size of organization (acre-feet of water conveyed):							
None.....organizations... 1 to 299 acre-feet.....organizations...	...	...	...	...	...	...	...
300 to 999 acre-feet.....organizations...	24 26	24 26	...	...	...	...	...
1,000 to 2,999 acre-feet.....organizations...	29 32	26 21	2 11	1...	...	...	...
3,000 to 9,999 acre-feet.....organizations...	32 10	21 ...	11...	...	...	...	...
10,000 to 29,999 acre-feet.....organizations...	4 4	...	...	...	...	...	...
30,000 to 99,999 acre-feet.....organizations...	4 ...	...	1 ...	3...	...	...	...
100,000 or more acre-feet.....organizations...	...	...	...	...	...	...	...

D Data not shown to avoid disclosure of information for individual organizations.
NA Not available.

IRRIGATION OF AGRICULTURAL LANDS

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

Item (For definitions and explanations, see text)	Platte River (VI-D and VI-E)						
	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users	
Irrigation organizations.....organizations 1959...	142	113	15	9	3	4	2
Service area, 1959:	161	132	20	7	2	NA	...
Area served, as reported							
by organizations.....acres...	(D)	135,317	45,105	(D)	...	(D)	(D)
Area irrigated, as reported	(D)	124,217	44,742	(D)	...	(D)	(D)
by organizations.....acres...	(D)	...	...	(D)	...	(D)	(D)
Water users served, 1959, total.....water users...	(D)	548	525	(D)	...	(D)	(D)
Farm irrigation water users.....water users...	(D)	548	382	(D)	...	(D)	(D)
Residential water users.....water users...	(D)	...	123	(D)	...	...	...
Other water users.....water users...	(D)	...	...	(D)	...	...	(D)
TYPE OF SERVICE, 1959							
All water directly from surface and ground							
water sources.....organizations...	110	87	14	7	...	3	2
Total water conveyed.....acre-feet...	1,172,425	202,218	70,233	(D)	...	(D)	(D)
Water delivered.....acre-feet...	624,310	168,600	53,658	(D)	...	(D)	...
To farm and residential users							
only.....organizations...	107	87	14	...	...	1	2
acre-feet...	299,867	168,600	53,658	(D)	...	(D)	(D)
To farm and residential users and other							
irrigation organizations.....organizations...	3	...	...	3	...	(D)	...
Water to farm and residential							
users.....acre-feet...	107,273	...	...	(D)	...	(D)	...
Water to other irrigation							
organizations.....acre-feet...	217,170	...	...	(D)	...	(D)	...
To other irrigation organizations							
only.....organizations...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
Part of water from other							
organizations.....organizations...	2	1	...	...	...	...	...
Total water conveyed.....acre-feet...	42,020	1,972	40,048	...	...	...	...
From surface and ground water							
sources.....acre-feet...	24,634	1,200	23,434	...	...	...	...
From other irrigation organizations.....acre-feet...	17,386	772	16,614	...	...	...	...
Water delivered.....acre-feet...	35,813	1,772	34,041	...	...	...	...
To farm and residential users							
only.....organizations...	2	1	1	...	...	...	...
acre-feet...	35,813	1,772	34,041	...	...	...	...
To farm and residential users and other							
irrigation organizations.....organizations...	...	...	...	...	...	...	...
Water to farm and residential							
users.....acre-feet...	...	...	...	...	...	...	...
Water to other irrigation							
organizations.....acre-feet...	...	...	...	...	...	...	...
To other irrigation organizations							
only.....organizations...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
All of water from other organizations.....organizations...	27	25	...	2	...	1	...
Total water conveyed.....acre-feet...	199,784	41,680	...	(D)	...	(D)	...
Water delivered.....acre-feet...	50,354	37,641	...	(D)	...	...	...
To farm and residential users							
only.....organizations...	27	25	...	...	...	...	...
acre-feet...	50,354	37,641	...	(D)	...	...	...
To farm and residential users and other							
irrigation organizations.....organizations...	...	...	...	...	...	...	...
Water to farm and residential							
users.....acre-feet...	...	...	...	...	...	...	...
Water to other irrigation							
organizations.....acre-feet...	...	...	...	...	...	...	...
To other irrigation organizations							
only.....organizations...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
No water conveyed.....organizations...	3	...	...	...	3	...	...
WATER FROM OTHER SOURCES							
Organizations reporting no water from other							
sources used on the land served by the							
organization.....organizations...	135	112	14	7	...	3	2
acres served...	443,254	134,890	37,266	(D)	...	(D)	(D)
acres irrigated...	432,307	123,790	37,003	(D)	...	(D)	(D)
water delivered to farms (acre-feet)...	700,405	207,433	66,688	(D)	...	(D)	(D)
acre-feet per acre...	1.6	1.7	1.8	(D)	...	(D)	(D)
Organizations reporting water from other							
sources used on land served by the							
organization.....organizations...	4	1	2	1	...	...	...
acres served...	10,014	427	7,839	(D)	...	...	...
acres irrigated...	9,914	427	7,739	(D)	...	...	...
water delivered to farms (acre-feet)...	23,959	580	20,518	(D)	...	...	...
acre-feet per acre...	2.4	1.4	2.6	(D)	...	...	...
NEW CAPITAL INVESTMENT, 1950-1959							
Expenditures for additional new works and							
equipment for irrigation and drainage							
January 1, 1950-December 31, 1959.....organizations...	53	40	6	5	2	3	...
By U. S. B. R.....dollars...	5,652,881	...	...	(D)	4,247,198	(D)	...
By water users organizations.....dollars...	2,886,331	66,551	71,800	(D)	...	(D)	...

See footnotes at end of table.

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

Item (For definitions and explanations, see text)	Platte River (VI-D and VI-E)						
	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users	
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
Total entering conveyance systems.....organizations... 							

D Data not shown to avoid disclosure of information for individual organizations.
NA Not available.

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950-59.

Item (For definitions and explanations, see text)	Yellowstone River direct above Livingston, Clarks Fork direct, and Big Horn River (VI-F-1d, 4a, and VI-G)							
	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other	
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users		
Irrigation organizations.....organizations 1959...	224	161	34	20	3	7	6	
1949.....	232	175	38	16	2	NA	1	
Service area, 1959:								
Area served, as reported								
by organizations.....acres...	488,923	80,096	122,369	204,811	42,730	111,953	38,917	
Area irrigated, as reported								
by organizations.....acres...	439,585	64,838	112,491	191,949	40,540	104,560	29,767	
Water users served, 1959, total.....water users...	5,498	686	1,135	3,185	204	1,117	288	
Farm irrigation water users.....water users...	4,596	574	1,099	2,431	204	1,091	288	
Residential water users.....water users...	893	110	32	731	...	25	...	
Other water users.....water users...	9	2	4	3	...	1	...	
TYPE OF SERVICE, 1959								
All water directly from surface and ground								
water sources.....organizations...	207	153	31	16	1	4	6	
Total water conveyed.....acre-feet...	2,400,740	255,531	678,439	1,117,924	154,296	622,670	194,550	
Water delivered.....acre-feet...	1,823,345	205,597	504,631	856,383	86,714	459,037	170,020	
To farm and residential users								
only.....organizations...	195	153	26	9	1	1	6	
acre-feet...	1,236,438	205,597	481,052	293,075	86,714	53,595	170,020	
To farm and residential users and other								
irrigation organizations.....organizations...	10	...	5	...	...	2	...
Water to farm and residential								
users.....acre-feet...	345,803	...	12,104	333,699	...	236,503	...	
Water to other irrigation								
organizations.....acre-feet...	220,370	...	11,475	208,895	...	148,225	...	
To other irrigation organizations								
only.....organizations...	1	...	...	1	...	1	...
acre-feet...	20,714	...	...	20,714	...	20,714	...
Part of water from other								
organizations.....organizations...	10	5	2	2	1	1	...	
Total water conveyed.....acre-feet...	165,019	9,166	17,692	82,368	55,793	73,088	...	
From surface and ground water								
sources.....acre-feet...	1,18,190	256	1,6,382	11,280	1,23,344	4,000	...	
From other irrigation organizations.....acre-feet...	183,209	8,910	24,074	71,088	79,137	69,088	...	
Water delivered.....acre-feet...	107,989	7,312	13,213	47,768	39,696	34,328	...	
To farm and residential users								
only.....organizations...	10	5	2	2	1	1	...	
acre-feet...	107,989	7,312	13,213	47,768	39,696	34,328	...	
To farm and residential users and other								
irrigation organizations.....organizations...	...	...	...	...	...	...	...
Water to farm and residential								
users.....acre-feet...	...	...	...	...	...	...	...
Water to other irrigation								
organizations.....acre-feet...	...	...	...	...	...	...	...
To other irrigation organizations								
only.....organizations...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
All of water from other organizations.....organizations...	6	3	1	2	...	2	...	
Total water conveyed.....acre-feet...	57,875	1,455	23,220	33,200	...	33,200	...	
Water delivered.....acre-feet...	46,564	1,280	20,124	25,160	...	25,160	...	
To farm and residential users								
only.....organizations...	6	3	1	2	...	2	...	
acre-feet...	46,564	1,280	20,124	25,160	...	25,160	...	
To farm and residential users and other								
irrigation organizations.....organizations...	...	...	...	...	...	...	...
Water to farm and residential								
users.....acre-feet...	...	...	...	...	...	...	...
Water to other irrigation								
organizations.....acre-feet...	...	...	...	...	...	...	...
To other irrigation organizations								
only.....organizations...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
No water conveyed.....organizations...	1	...	...	...	1	...	...
WATER FROM OTHER SOURCES								
Organizations reporting no water from other								
sources used on the land served by the								
organization.....organizations...	213	156	31	18	2	6	6	
acres served...	478,204	75,200	116,289	205,068	42,730	112,053	38,917	
acres irrigated...	432,945	62,501	108,111	192,026	40,540	104,560	29,767	
water delivered to farms (acre-feet)...	1,705,940	209,469	503,516	696,525	126,410	349,571	170,020	
acre-feet per acre...	3.9	3.4	4.6	3.6	3.1	3.3	3.7	
Organizations reporting water from other								
sources used on land served by the								
organization.....organizations...	8	5	3	...	...	...	...
acres served...	11,226	5,146	6,080	...	...	...	...
acres irrigated...	6,967	2,587	4,380	...	...	...	...
water delivered to farms (acre-feet)...	25,949	4,589	21,360	...	...	...	...
acre-feet per acre...	3.7	1.8	4.9	...	...	...	...
NEW CAPITAL INVESTMENT, 1950-1959								
Expenditures for additional new works and								
equipment for irrigation and drainage,								
January 1, 1950-December 31, 1959.....organizations...	127	81	23	14	3	7	6	
By U. S. B. R. ....dollars...	14,506,928	...	...	3,118,926	11,388,012	3,118,926	...
By water users organizations.....dollars...	1,835,178	160,048	293,584	811,788	...	625,903	569,758	

See footnotes at end of table.

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

Yellowstone River direct above Livingston, Clarke Fork direct, and Big Horn River (VI-F-1d, 4a, and VI-G)								
Item (For definitions and explanations, see text)	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other	
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users		
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959								
Total entering conveyance systems.....organizations... 								

NA Not available. ¹Water was transferred to the basin and released to natural stream channels in excess of the quantity of surface water withdrawn by irrigation organizations. The net effect was to increase the available surface water supply in the basin or State.

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

Item (For definitions and explanations, see text)	Yellowstone River excluding Big Horn River and Clarke Fork (VI-F)						
	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users	
Irrigation organizations.....organizations 1959...	131	97	34	...	...	...	...
1949...	129	100	28	...	...	MA	1
Service area, 1959:							
Area served, as reported							
by organizations.....acres...	115,655	53,511	62,144	...	...	...	...
Area irrigated, as reported							
by organizations.....acres...	98,339	47,067	51,292	...	...	...	...
Water users served, 1959, total.....water users...	967	463	504	...	...	...	...
Farm irrigation water users.....water users...	964	460	504	...	...	...	...
Residential water users.....water users...	2	2	...	...	...	...	...
Other water users.....water users...	1	1	...	...	...	...	...
TYPE OF SERVICE, 1959							
All water directly from surface and ground							
water sources.....organizations...	118	94	24	...	...	...	...
Total water conveyed.....acre-feet...	214,994	113,237	101,757	...	...	...	...
Water delivered.....acre-feet...	177,230	94,449	82,781	...	...	...	...
To farm and residential users							
only.....organizations...	111	93	18	...	...	...	...
acre-feet...	159,765	92,087	67,678	...	...	...	...
To farm and residential users and other							
irrigation organizations.....organizations...	1	...	1	...	...	...	...
Water to farm and residential							
users.....acre-feet...	4,272	...	4,272	...	...	...	...
Water to other irrigation							
organizations.....acre-feet...	5,568	...	5,568	...	...	...	...
To other irrigation organizations							
only.....organizations...	4	1	3	...	...	...	...
acre-feet...	7,625	2,362	5,263	...	...	...	...
Part of water from other							
organizations.....organizations...	7	1	6	...	...	...	...
Total water conveyed.....acre-feet...	53,108	2,091	51,017	...	...	...	...
From surface and ground water							
sources.....acre-feet...	33,795	3,522	34,317	...	...	...	...
From other irrigation organizations.....acre-feet...	19,313	2,613	16,700	...	...	...	...
Water delivered.....acre-feet...	43,749	1,569	40,180	...	...	...	...
To farm and residential users							
only.....organizations...	5	1	4	...	...	...	...
acre-feet...	31,352	1,569	29,783	...	...	...	...
To farm and residential users and other							
irrigation organizations.....organizations...	2	...	2	...	...	...	...
Water to farm and residential							
users.....acre-feet...	4,277	...	4,277	...	...	...	...
Water to other irrigation							
organizations.....acre-feet...	6,120	...	6,120	...	...	...	...
To other irrigation organizations							
only.....organizations...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
All of water from other organizations.....organizations...	...	...	...	...	...	...	...
Total water conveyed.....acre-feet...	...	...	...	...	...	...	...
Water delivered.....acre-feet...	...	...	...	...	...	...	...
To farm and residential users							
only.....organizations...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
To farm and residential users and other							
irrigation organizations.....organizations...	...	...	...	...	...	...	...
Water to farm and residential							
users.....acre-feet...	...	...	...	...	...	...	...
Water to other irrigation							
organizations.....acre-feet...	...	...	...	...	...	...	...
To other irrigation organizations							
only.....organizations...	...	...	...	...	...	...	...
acre-feet...	...	...	...	...	...	...	...
No water conveyed.....organizations...	6	2	4	...	...	...	...
WATER FROM OTHER SOURCES							
Organizations reporting no water from other							
sources used on the land served by the							
organization.....organizations...	116	93	23	...	...	...	...
acres served.....	108,985	52,711	56,274	...	...	...	...
acres irrigated.....	94,601	46,267	48,334	...	...	...	...
water delivered to farms (acre-feet)...	191,852	92,007	99,845	...	...	...	...
acre-feet per acre...	2.0	2.0	2.1	...	...	...	...
Organizations reporting water from other							
sources used on land served by the							
organization.....organizations...	3	1	2	...	...	...	...
acres served.....	6,810	800	6,010	...	...	...	...
acres irrigated.....	3,898	800	3,098	...	...	...	...
water delivered to farms (acre-feet)...	7,236	791	6,445	...	...	...	...
acre-feet per acre...	1.9	1.0	2.1	...	...	...	...
NEW CAPITAL INVESTMENT, 1950-1959							
Expenditures for additional new works and							
equipment for irrigation and drainage,							
January 1, 1950-December 31, 1959.....organizations...	101	74	27	...	...	...	...
By U. S. B. R. ....dollars...	...	...	...	...	...	...	...
By water users organizations.....dollars...	600,809	104,636	496,173	...	...	...	...
See footnotes at end of table.							

State Table 4.—NUMBER AND CHARACTERISTICS OF IRRIGATION ORGANIZATIONS, BY TYPE OF ORGANIZATION, BY SIZE OF ORGANIZATION, AND NEW CAPITAL INVESTMENT, BY DRAINAGE BASINS: CENSUSES OF 1959 AND 1950—Con.

Item (For definitions and explanations, see text)	Yellowstone River excluding Big Horn River and Clarke Fork (VI-F)						
	All types	Mutual		District	U. S. Bureau of Reclamation		Commercial, Indian, State, city, and other
		Unincorporated	Incorporated		Projects and storage systems operated by bureau	Operated by water users	
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959							
Total entering conveyance systems.....organizations... acre-feet...	125 248,789	95 112,715	30 136,074	...	...	...	...
From another drainage basin.....organizations... acre-feet...	...	...	...	...	...	...	...
From drainage basin.....D. B. No.....	...	...	...	...	...	...	...
From sources within basin.....organizations... acre-feet...	125 248,789	95 112,715	30 136,074	...	...	...	...
Surface water.....organizations... acre-feet...	125 248,489	95 112,415	30 136,074	...	...	...	...
Ground water.....organizations... acre-feet...	1 300	...	...	...	...	...	...
From other organizations in the basin.....organizations receiving... acre-feet...	7 19,313	1 2,613	6 16,700	...	...	...	...
Total leaving conveyance systems.....organizations... acre-feet...	125 248,789	95 112,966	30 135,823	...	...	...	...
Conveyance loss in basin.....organizations... acre-feet...	123 48,841	94 19,308	29 29,533	...	...	...	...
Conveyed to another drainage basin.....organizations... acre-feet...	1 280	...	1 280	...	...	...	...
To drainage basin number.....D. B. No.....	...	...	...	...	...	...	...
Delivered for use in the basin.....organizations... acre-feet...	119 199,668	94 93,658	25 106,010	...	...	...	...
To farm irrigation water users.....organizations... acre-feet...	119 198,808	94 92,798	25 105,010	...	...	...	...
To domestic water users.....organizations... acre-feet...	1 858	...	...	...	...	...	...
For other use.....organizations... acre-feet...	1 2	...	...	...	...	...	...
Undelivered to other irrigation organizations.....organizations delivering... acre-feet...	7 19,313	1 2,362	6 16,951	...	...	...	...
SIZE OF ORGANIZATION, 1959							
Size of organization (number of farm irrigation water users):							
None.....organizations... 1 to 3 water users.....organizations... 4 to 9 water users.....organizations... 10 to 29 water users.....organizations... 30 to 99 water users.....organizations... 100 to 299 water users.....organizations... 300 to 999 water users.....organizations... 1,000 or more water users.....organizations...	12 62 29 23 5	3 61 22 10 1	9 1 7 13 4......	...	...	...	...
Size of organization (acre-feet of water delivered directly to farms):							
None.....organizations... 1 to 299 acre-feet.....organizations... 300 to 999 acre-feet.....organizations... 1,000 to 2,999 acre-feet.....organizations... 3,000 to 9,999 acre-feet.....organizations... 10,000 to 29,999 acre-feet.....organizations... 30,000 to 99,999 acre-feet.....organizations... 100,000 or more acre-feet.....organizations...	12 23 43 34 15	3 21 43 25 2	9 1 2 10 2......	...	...	...	...
Size of organization (acre-feet of water conveyed):							
None.....organizations... 1 to 299 acre-feet.....organizations... 300 to 999 acre-feet.....organizations... 1,000 to 2,999 acre-feet.....organizations... 3,000 to 9,999 acre-feet.....organizations... 10,000 to 29,999 acre-feet.....organizations... 30,000 to 99,999 acre-feet.....organizations... 100,000 or more acre-feet.....organizations...	6 17 45 39 19	2 16 39 33 12	4 1 6 5 5......	...	...	...	...

NA Not available.

¹Water was transferred to the basin and released to natural stream channels in excess of the quantity of surface water withdrawn by irrigation organizations. The net effect was to increase the available surface water supply in the basin or State.

State Table 5.—NUMBER OF IRRIGATION ORGANIZATIONS, TYPE OF SERVICE, NEW CAPITAL INVESTMENT, AND WATER CONVEYED, BY SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUS OF 1959

Item (For definitions and explanations, see text)		Wyoming, total				Snake River above American Falls, Idaho			
		(I-R)							
		Size of organization, by total water conveyed							
		0-999 acre-feet	1,000- 9,999 acre-feet	10,000- 99,999 acre-feet	100,000 or more acre-feet	0-999 acre-feet	1,000- 9,999 acre-feet	10,000- 99,999 acre-feet	100,000 or more acre-feet
1	Number of organizations.....organizations...	247	355	76	8	20	48	15	...
TYPE OF SERVICE									
2	All water directly from surface and ground sources.....organizations...	225	317	64	7	20	41	13	...
3	Total water conveyed.....acre-feet...	107,159	1,058,871	1,926,000	1,744,945	11,455	148,644	295,600	...
4	Water delivered.....acre-feet...	89,677	843,136	1,591,609	950,889	9,892	99,217	244,569	...
5	To farm and residential users only.....organizations...	89,164	800,284	1,273,347	314,170	9,892	98,057	180,309	...
6	To farm and residential users and other irrigation organizations.....organizations...	...	8	5	4	...	1	1	...
7	Water to farm and residential users.....acre-feet...	...	20,055	154,928	313,776	...	...	28,080	...
8	Water to other irrigation organizations.....acre-feet...	...	15,685	116,700	322,943	...	1,160	10,260	...
9	To other irrigation organizations only.....organizations...	1	3	2	...	...	...	1	...
10	To other irrigation organizations only.....acre-feet...	513	7,112	46,634	...	...	...	25,920	...
11	Part of water from other organizations.....organizations...	1	18	8	...	...	6	1	...
12	Total water conveyed.....acre-feet...	430	72,447	237,030	...	...	28,444	16,560	...
13	From surface and ground water sources.....acre-feet...	1-20	28,863	34,436	...	...	12,110	6,970	...
14	From other irrigation organizations.....acre-feet...	450	43,584	202,594	...	...	16,330	9,590	...
15	Water delivered.....acre-feet...	400	61,409	168,526	...	...	25,596	14,904	...
16	To farm and residential users only.....organizations...	1	16	8	...	...	6	1	...
17	To farm and residential users only.....acre-feet...	400	51,012	168,526	...	...	25,596	14,904	...
18	To farm and residential users and other irrigation organizations.....organizations...	...	2	...	...	...	...	...	...
19	Water to farm and residential users.....acre-feet...	...	4,277	...	...	...	...	...	...
20	Water to other irrigation organizations.....acre-feet...	...	6,120	...	...	...	...	...	...
21	To other irrigation organizations only.....organizations...	...	...	...	...	...	...	...	...
22	To other irrigation organizations only.....acre-feet...	...	...	...	...	...	...	...	...
23	All of water from other organizations.....organizations...	10	20	4	1	...	1	1	...
24	Total water conveyed.....acre-feet...	5,343	44,152	76,436	143,148	...	1,160	10,260	...
25	Water delivered.....acre-feet...	4,802	39,439	61,532	...	...	1,160	7,695	...
26	To farm and residential users only.....organizations...	10	20	4	1	...	1	1	...
27	To farm and residential users only.....acre-feet...	4,802	39,439	61,532	(*)	...	1,160	7,695	...
28	To farm and residential users and other irrigation organizations.....organizations...	...	...	...	...	...	...	...	...
29	Water to farm and residential users.....acre-feet...	...	...	...	...	...	...	...	...
30	Water to other irrigation organizations.....acre-feet...	...	...	...	...	...	...	...	...
31	To other irrigation organizations only.....organizations...	...	...	...	...	...	...	...	...
32	To other irrigation organizations only.....acre-feet...	...	...	...	...	...	...	...	...
33	No water conveyed.....organizations...	11	...	...	...	...	...	...	...
WATER FROM OTHER SOURCES									
35	Organizations reporting no water from other sources used on land served by the organization.....organizations...	226	339	70	8	20	46	13	...
36	Total water conveyed.....acre-feet...	65,128	396,131	483,408	356,100	2,887	31,058	31,852	...
37	Water delivered.....acres irrigated...	52,444	363,236	438,758	344,325	2,536	28,576	29,793	...
38	Organizations reporting water from other sources used on land served by the organization.....organizations...	7	13	3	...	...	2	1	...
39	Total water conveyed.....acre-feet...	4,827	29,035	13,034	...	...	7,672	2,895	...
40	Water delivered.....acres irrigated...	2,668	22,688	12,744	...	...	7,100	2,605	...
NEW CAPITAL INVESTMENT, 1950-1959									
41	Expenditures for additional new works and equipment for irrigation and drainage, January 1, 1950-December 31, 1959.....organizations...	119	207	48	5	11	27	7	...
42	dollars.....	10,440,779	1,159,989	12,931,853	4,643,512	3,430	73,245	116,477	...
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959									
43	Total entering conveyance systems in basin.....organizations...	238	353	76	8	20	48	15	...
44	From another drainage basin.....acre-feet...	107,139	1,090,614	1,957,556	1,744,945	11,455	160,754	302,570	...
45	From another drainage basin.....organizations...	...	3	...	...	...	...	...	...
46	From another drainage basin.....acre-feet...	...	10,320	...	...	...	...	...	...
47	From Drainage Basin number.....D. B. No.....	...	...	72	7	20	42	14	...
48	From natural sources within basin.....organizations...	226	339	72	7	20	46	14	...
49	Surface water.....acre-feet...	107,139	1,080,294	1,957,556	1,744,945	11,455	160,754	302,570	...
50	Ground water.....organizations...	222	331	72	7	16	46	14	...
51	From natural sources within basin.....organizations...	105,889	1,075,134	1,957,556	1,744,945	10,205	158,054	302,570	...
52	From other organizations in the basin.....organizations receiving...	1,250	5,160	...	...	1,250	2,700	...	...
53	From other organizations in the basin.....acre-feet...	11	38	12	1	...	7	2	...
54	Total leaving conveyance systems.....organizations...	5,793	87,736	279,030	143,148	...	17,490	19,850	...
55	Conveyance loss in basin.....organizations...	238	353	76	8	20	48	15	...
56	Conveyance loss in basin.....acre-feet...	112,419	1,149,433	2,073,252	1,565,150	11,455	177,084	286,240	...
57	Conveyed to another drainage basin.....organizations...	229	345	73	6	20	46	15	...
58	Conveyed to another drainage basin.....acre-feet...	18,051	193,385	405,776	398,343	1,563	26,202	55,252	...
59	Delivered for use in the basin.....organizations...	...	11	2	2	...	7	...	...
60	Delivered for use in the basin.....acre-feet...	...	38,199	4,254	536,991	...	26,069	...	...
61	To drainage basin number.....D. B. No.....	...	...	...	...	...	...	...	...
62	Delivered for use in the basin.....organizations...	235	343	74	7	20	42	14	...
63	To farm irrigation water users.....acre-feet...	94,368	917,849	1,663,222	629,816	9,892	124,813	230,988	...
64	To residential water users.....organizations...	235	343	74	7	20	42	14	...
65	For other use.....organizations...	94,189	908,812	1,647,250	627,931	9,892	123,513	223,176	...
66	Delivered to other irrigation organizations.....organizations delivering...	3	16	9	1	...	4	...	...
67	Delivered to other irrigation organizations.....acre-feet...	177	6,255	11,083	15	...	1,300	7,812	...
68	For other use.....organizations...	1	2	1	2	...	...	...	...
69	Delivered to other irrigation organizations.....acre-feet...	2	2,782	4,889	1,870	...	...	...	...
70	Delivered to other irrigation organizations.....organizations delivering...	1	14	6	4	...	...	2	...
71	AVERAGE DELIVERY OF IRRIGATION WATER PER ACRE, 1959	513	28,917	163,334	322,943	...	1,160	36,180	...
PER ACRE DELIVERED, AS REPORTED BY IRRIGATION ORGANIZATION:									
72	All organizations.....acre-feet...	1.1	2.6	3.7	3.6	3.9	6.3	6.9	...
73	Organizations reporting no water from other sources used on land served by the organization.....organizations...	226	339	70	8	20	46	13	...
74	Organizations reporting no water from other sources used on land served by the organization.....acre-feet...	1.7	2.5	3.6	2.5	3.9	6.1	6.9	...

*Water was transferred to the basin and released to natural stream channels in excess of the quantity of surface water withdrawn by irrigation organizations. The net effect was to increase the available surface water supply in the basin or State.

*Delivered by the organization in another drainage basin.

State Table 5.—NUMBER OF IRRIGATION ORGANIZATIONS, TYPE OF SERVICE, NEW CAPITAL INVESTMENT, AND WATER CONVEYED, BY SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUS OF 1959—Continued

Item (For definitions and explanations, see text)		Bear River and Green River				Platte River			
		(III-E and IV-E)				(VI-D and VI-E)			
		Size of organization, by total water conveyed							
		0-999 acre-feet	1,000- 9,999 acre-feet	10,000- 99,999 acre-feet	100,000 or more acre-feet	0-999 acre-feet	1,000- 9,999 acre-feet	10,000- 99,999 acre-feet	100,000 or more acre-feet
1	Number of organizations.....organizations...	29	61	14	...	50	79	10	3
TYPE OF SERVICE									
2	All water directly from surface and ground sources.....organizations...	29	60	14	...	40	60	8	2
3	Total water conveyed.....acre-feet...	14,634	218,212	356,431	...	18,976	203,635	242,512	707,302
4	Water delivered.....acre-feet...	13,190	184,034	298,948	...	15,544	167,254	189,521	251,991
5	To farm and residential users only.....organizations...	29	59	14	...	40	60	7	...
6	.....acre-feet...	13,190	179,903	298,948	...	15,544	167,254	117,069	...
7	To farm and residential users and other irrigation organizations.....organizations...	...	1	...	...	...	...	1	2
8	Water to farm and residential users.....acre-feet...	...	3,331	...	...	...	...	30,000	77,273
9	Water to other irrigation organizations.....acre-feet...	...	800	...	...	...	...	42,452	174,718
10	To other irrigation organizations only.....organizations...	...	...	...	...	...	...	...	...
11	.....acre-feet...	...	...	...	...	...	...	...	...
12	Part of water from other organizations.....organizations...	...	1	...	...	...	1	1	...
13	Total water conveyed.....acre-feet...	...	4,760	...	...	...	1,972	40,048	...
14	From surface and ground water sources.....acre-feet...	...	3,960	...	...	...	1,200	23,434	...
15	From other irrigation organizations.....acre-feet...	...	800	...	...	...	772	16,614	...
16	Water delivered.....acre-feet...	...	4,284	...	...	...	1,772	34,041	...
17	To farm and residential users only.....organizations...	...	1	...	...	...	1	1	...
18	.....acre-feet...	...	4,284	...	...	...	1,772	34,041	...
19	To farm and residential users and other irrigation organizations.....organizations...	...	...	...	...	...	...	...	...
20	Water to farm and residential users.....acre-feet...	...	...	...	...	...	...	...	...
21	Water to other irrigation organizations.....acre-feet...	...	...	...	...	...	...	...	...
22	To other irrigation organizations only.....organizations...	...	...	...	...	...	...	...	...
23	.....acre-feet...	...	...	...	...	...	...	...	...
24	All of water from other organizations.....organizations...	...	...	...	...	7	18	1	1
25	Total water conveyed.....acre-feet...	...	...	...	...	3,888	37,792	14,956	143,168
26	Water delivered.....acre-feet...	...	...	...	...	3,522	34,119	12,713	...
27	To farm and residential users only.....organizations...	...	...	...	...	7	18	1	1
28	.....acre-feet...	...	...	...	...	3,522	34,119	12,713	(1)
29	To farm and residential users and other irrigation organizations.....organizations...	...	...	...	...	...	...	...	...
30	Water to farm and residential users.....acre-feet...	...	...	...	...	...	...	...	...
31	Water to other irrigation organizations.....acre-feet...	...	...	...	...	...	...	...	...
32	To other irrigation organizations only.....organizations...	...	...	...	...	...	...	...	...
33	.....acre-feet...	...	...	...	...	...	...	...	...
34	No water conveyed.....organizations...	...	...	...	...	3	...	...	...
WATER FROM OTHER SOURCES									
35	Organizations reporting no water from other sources used on land served by the organization.....organizations...	28	57	14	...	46	77	9	3
36	.....acres served...	7,596	89,853	104,118	...	17,158	126,914	92,047	209,135
37	.....acres irrigated...	7,566	82,444	86,955	...	14,059	124,075	85,871	208,362
38	Organizations reporting water from other sources used on land served by the organization.....organizations...	1	4	...	...	1	2	1	...
39	.....acres served...	180	8,099	...	...	427	2,248	7,339	...
40	.....acres irrigated...	180	7,436	...	...	427	2,148	7,339	...
NEW CAPITAL INVESTMENT, 1950-1959									
41	Expenditures for additional new works and equipment for irrigation and drainage, January 1, 1950-December 31, 1959.....organizations...	8	33	10	...	18	28	5	2
42	.....dollars...	8,532	139,607	239,305	...	4,266,163	111,647	1,461,402	2,700,000
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959									
43	Total entering conveyance systems in basin.....organizations...	29	61	14	...	47	79	10	3
44	From another drainage basin.....organizations...	14,634	225,052	353,551	...	18,976	204,835	265,946	707,302
45	.....acre-feet...	...	10,320	...	...	...	...	...	...
46	From Drainage Basin number.....D. B. No.....	...	...	...	...	...	...	...	...
47	From natural sources within basin.....organizations...	29	59	14	...	40	61	9	2
48	.....acre-feet...	14,634	214,732	353,551	...	18,976	204,835	265,946	707,302
49	Surface water.....organizations...	29	59	14	...	40	60	9	2
50	.....acre-feet...	14,634	214,732	353,551	...	18,976	202,675	265,946	707,302
51	Ground water.....organizations...	...	...	...	...	...	...	...	...
52	.....acre-feet...	...	...	...	...	...	2,160	...	...
53	From other organizations in the basin.....organizations receiving...	...	1	...	...	7	19	2	1
54	.....acre-feet...	...	800	...	...	3,888	38,564	31,570	143,148
55	Total leaving conveyance systems.....organizations...	29	61	14	...	47	79	10	3
56	.....acre-feet...	14,634	225,052	353,551	...	22,864	243,399	255,064	675,732
57	Conveyance loss in basin.....organizations...	26	61	14	...	45	79	10	3
58	Conveyed to another drainage basin.....organizations...	1,444	31,174	50,565	...	3,798	38,202	56,352	61,468
59	.....acre-feet...	...	1	...	...	...	...	...	...
60	To drainage basin number.....D. B. No.....	...	6,360	4,038	...	...	...	...	536,991
61	Delivered for use in the basin.....organizations...	29	61	14	...	47	79	10	2
62	.....acre-feet...	13,190	187,518	298,948	...	19,066	205,197	198,712	77,273
63	To farm irrigation water users.....organizations...	29	61	14	...	47	79	10	2
64	.....acre-feet...	13,148	187,350	298,948	...	19,066	201,699	193,810	77,273
65	To residential water users.....organizations...	1	1	...	...	...	...	1	...
66	.....acre-feet...	42	168	...	...	...	1,446	13	...
67	For other use.....organizations...	...	...	...	...	...	...	...	...
68	.....acre-feet...	...	1	...	...	...	2,052	4,889	...
69	Delivered to other irrigation organizations.....organizations delivering...	...	1	...	...	...	...	1	2
70	.....acre-feet...	...	800	...	...	...	...	42,452	174,718
AVERAGE DELIVERY OF IRRIGATION WATER PER ACRE, 1959									
Per acre irrigated, as reported by irrigation organization:									
73	All organizations.....acre-feet...	1.7	2.2	3.5	...	0.8	1.7	2.1	1.4
74	Organizations reporting no water from other sources used on land served by the organization.....organizations...	28	57	14	...	46	77	9	3
75	.....acre-feet...	1.7	1.9	2.9	...	1.3	1.6	2.0	1.5

¹Delivered by the organization in another drainage basin.

State Table 5.—NUMBER OF IRRIGATION ORGANIZATIONS, TYPE OF SERVICE, NEW CAPITAL INVESTMENT, AND WATER CONVEYED, BY SIZE OF ORGANIZATION, BY DRAINAGE BASINS: CENSUS OF 1959—Continued

Item (For definitions and explanations, see text)		Yellowstone River direct above Livingston, Clarks Fork direct, and Big Horn River (VI-F-1d, 4a and VI-C)				Yellowstone River excluding Big Horn River and Clarks Fork (VI-F)			
		Size of organization, by total water conveyed							
		0-999 acre-feet	1,000- 9,999 acre-feet	10,000- 99,999 acre-feet	100,000 or more acre-feet	0-999 acre-feet	1,000- 9,999 acre-feet	10,000- 99,999 acre-feet	100,000 or more acre-feet
1	Number of organizations.....organizations...	79	108	32	5	68	58	5	..
TYPE OF SERVICE									
2	All water directly from surface and ground sources.....organizations...	74	102	26	5	62	53	3	..
3	Total water conveyed.....acre-feet...	31,663	342,468	988,966	1,037,643	30,431	142,072	42,491	..
4	Water delivered.....acre-feet...	26,034	274,211	824,202	698,898	25,017	117,844	34,369	..
5	To farm and residential users only.....organizations...	74	96	22	3	59	50	2	..
6	To farm and residential users and other irrigation organizations.....organizations...	26,034	243,762	652,492	314,170	24,504	110,732	24,529	..
7	Water to farm and residential users.....acre-feet...	..	6	2	2	..	..	1	..
8	Water to other irrigation organizations.....acre-feet...	..	16,724	92,576	236,503	..	..	4,272	..
9	To other irrigation organizations only.....organizations...	..	13,725	58,420	148,225	..	..	5,568	..
10	To other irrigation organizations only.....acre-feet...	..	..	1	1	..	3	..	..
11	Part of water from other organizations.....organizations...	1	5	4	..	..	7,112	..	..
12	Total water conveyed.....acre-feet...	430	11,928	152,661	..	..	25,347	27,761	..
13	From surface and ground water sources.....acre-feet...	120	108	18,278	..	..	11,485	22,310	..
14	From other irrigation organizations.....acre-feet...	450	11,820	170,939	..	..	13,862	5,451	..
15	Water delivered.....acre-feet...	400	9,768	97,821	..	..	19,989	21,760	..
16	To farm and residential users only.....organizations...	1	5	4	..	..	3	2	..
17	To farm and residential users and other irrigation organizations.....organizations...	400	9,768	97,821	..	..	9,592	21,760	..
18	Water to farm and residential users.....acre-feet...	..	..	..	..	..	2	..	..
19	Water to other irrigation organizations.....acre-feet...	..	..	..	..	..	4,277	..	..
20	To other irrigation organizations only.....organizations...	..	..	..	..	..	6,120	..	..
21	To other irrigation organizations only.....acre-feet...	..	..	..	..	..	..	..	..
22	All of water from other organizations.....organizations...	3	1	2	..	..	..	..	..
23	Total water conveyed.....acre-feet...	1,455	5,200	51,220	..	..	..	..	..
24	Water delivered.....acre-feet...	1,280	4,160	41,124	..	..	..	..	..
25	To farm and residential users only.....organizations...	3	1	2	..	..	..	..	..
26	To farm and residential users and other irrigation organizations.....organizations...	1,280	4,160	41,124	..	..	..	..	..
27	Water to farm and residential users.....acre-feet...	..	..	..	..	..	..	..	..
28	Water to other irrigation organizations.....acre-feet...	..	..	..	..	..	..	..	..
29	To other irrigation organizations only.....organizations...	..	..	..	..	..	..	..	..
30	No water conveyed.....organizations...	1	..	..	..	6	..	..	..
WATER FROM OTHER SOURCES									
31	Organizations reporting no water from other sources used on land served by the organization.....organizations...	75	104	29	5	57	54	5	..
32	Total water conveyed.....acre-feet...	21,845	78,466	230,928	146,965	15,642	68,880	24,643	..
33	Water delivered.....acre-feet...	15,301	69,085	212,616	135,943	12,982	58,096	23,523	..
34	Organizations reporting water from other sources used on land served by the organization.....organizations...	3	5	..	..	2	1	..	..
35	Total water conveyed.....acre-feet...	2,920	8,306	..	..	1,300	5,510	..	..
36	Water delivered.....acre-feet...	861	6,106	..	..	1,200	2,698	..	..
NEW CAPITAL INVESTMENT, 1950-1959									
37	Expenditures for additional new works and equipment for irrigation and drainage, January 1, 1950-December 31, 1959.....organizations...	30	71	23	3	51	47	3	..
38	dollars.....dollars...	2,682,292	671,947	11,044,365	1,943,512	367,228	163,277	70,304	..
WATER CONVEYED BY IRRIGATION ORGANIZATIONS, 1959									
39	Total entering conveyance systems in basin.....organizations...	78	108	32	5	62	58	5	..
40	From another drainage basin.....organizations...	31,643	342,576	970,688	1,037,643	30,431	153,597	64,801	..
41	From drainage basin number.....D. B. No.....	..	..	..	..	..	..	..	..
42	From natural sources within basin.....organizations...	75	107	30	5	62	58	5	..
43	Surface water.....organizations...	31,643	342,576	970,688	1,037,643	30,431	153,597	64,801	..
44	Ground water.....organizations...	..	..	..	..	..	..	1	..
45	From other organizations in the basin.....organizations receiving...	4	6	6	..	..	..	300	..
46	Total leaving conveyance systems.....organizations...	1,905	17,020	222,159	..	..	13,862	5,451	..
47	Conveyance loss in basin.....organizations...	78	108	32	5	62	58	5	..
48	Conveyed to another drainage basin.....organizations...	33,548	345,871	1,113,713	889,418	29,918	154,187	64,684	..
49	To drainage basin number.....D. B. No.....	..	..	..	..	..	..	..	..
50	Delivered for use in the basin.....organizations...	5,834	68,437	229,484	336,875	5,412	29,306	14,123	..
51	To farm irrigation water users.....organizations...	27,714	275,144	884,013	552,543	24,506	124,601	50,561	..
52	To farm irrigation water users.....acre-feet...	78	108	30	5	60	54	5	..
53	To residential water users.....organizations...	27,579	271,931	880,755	550,658	24,504	123,743	50,561	..
54	For other use.....organizations...	135	2,483	3,258	15	..	858	..	..
55	Delivered to other irrigation organizations.....organizations delivering...	..	730	..	1,870	2	..	..	..
56	AVERAGE DELIVERY OF IRRIGATION WATER PER ACRE, 1959	..	13,725	79,134	148,225	513	13,232	5,568	..
Per acre irrigated, as reported by irrigation organization:									
57	All organizations.....acre-feet...	2.3	3.8	1.1	4.1	1.4	2.2	2.1	..
58	Organizations reporting no water from other sources used on land served by the organization.....organizations...	75	104	29	5	57	54	5	..
59	acre-feet.....acre-feet...	3.6	3.8	4.1	3.7	1.8	2.1	2.1	..

¹Water was transferred to the basin and released to natural stream channels in excess of the quantity of surface water withdrawn by irrigation organizations. The net effect was to increase the available surface water supply in the basin or State.

APPENDIX

(393)

Form 40-1-1 (10-5-50)

This census is authorized by Act of Congress, United States Code, Title 13, Sections 5, 9, 142, 221, 223, 224, requiring that the inquiries be answered completely and accurately, and guaranteeing that the information furnished be accorded confidential treatment. The census report cannot be used for purposes of taxation, investigation, or regulation.

Budget Bureau No. 41-5877
Approved expires December 31, 1960

I-1 No. U.S. DEPARTMENT OF COMMERCE—BUREAU OF THE CENSUS
PARSONS, KANSAS
IRRIGATION REPORT
I-1 CENSUS OF IRRIGATION 1959

Section I—NAME AND TYPE OF ORGANIZATION

1. Name of organization _____

2. By what other name is this organization known? _____ None ☐
Other names: _____

3. Is this organization (Mark one)

(a) Unincorporated mutual or unincorporated cooperative? ☐

(b) Incorporated mutual or incorporated cooperative? ☐

(c) Irrigation district? ☐

(d) A farm or ranch? ☐

(e) Operated by the U.S. Bureau of Reclamation? ☐

(f) Operated by the U.S. Bureau of Indian Affairs? ☐

(g) City or town? ☐

(h) Other? (Describe) _____ ☐

Section II—WATER USERS AND ACRES SERVED IN 1959

4. How many water users were served by this organization in 1959? _____ None ☐ Number _____
Of these water users, how many were—

(a) Farm or ranch irrigation water users? _____ None ☐ Number _____

(b) Residential or domestic users? _____ None ☐ Number _____

(c) Other? (Describe under REMARKS) _____ None ☐ Number _____

Add water users in (a), (b), and (c) and enter total here _____

5. How many acres of farm and ranch lands were served by this organization in 1959? _____ None ☐ Acres _____
(This should be the area for which water users reported in 4(a) did receive or were entitled to receive water in 1959.)

6. (a) How many of these acres (reported in question 5), were actually irrigated in 1959 with water from this organization? _____ Acres _____

(b) Or, if acres cannot be given for question 6(a), what percent of these acres was actually irrigated in 1959 with water from this organization? _____ Percent _____

Section III—SUPPLY OF WATER IN 1959

7. Did this organization obtain water in 1959

(a) From surface sources (i.e. from streams, lakes, reservoirs and drainage ditches) by diversion or pumping by this organization? _____ No ☐ Yes ☐

(b) From ground water sources (i.e. from pumped wells, flowing wells, and springs) by this organization? _____ No ☐ Yes ☐

(c) From a canal, pipe, or reservoir operated by another organization? _____ No ☐ Yes ☐

If "Yes" for (c), give name and address below: _____

Name _____ County _____

Post Office _____ State _____

INSTRUCTIONS for question 8: Give quantity of water obtained from each source in either acre-feet or millions of gallons in "A" below. If quantity cannot be given in these units, give rate of flow in one of the units shown under "B" and the duration of flow. If measurements are not available, make the best possible estimate and explain under REMARKS how your estimates were made.

Report actual amounts of water conveyed during 1959 in canals or pipes operated by the organization regardless of ownership of the water or water rights or whether payment was made for the water. Omit any water used only for hydroelectric power.

If water was stored in a reservoir: (1) Report in 8(a) the amount diverted from the reservoir directly into canals or pipes (except for hydroelectric power). (2) Do not include any releases down stream below a reservoir. (3) If water was diverted from a stream below a reservoir, report in 8(a) the amount diverted from the stream, not the amount released from the reservoir.

8. How much water was obtained in 1959 from—

	A. Quantity of water		B. Rate and duration of water flow			
	Acre-feet	Million gallons	Gallons per minute	Cubic feet per second	Miner's inches	Duration (number of days)
(a) Surface sources? (See 7(a). Include diversion from, but not flow into, reservoirs.)						
(b) Ground-water sources? (See 7(b).)						
(c) Another organization? (See 7(c).)						
(d) Total water obtained? (Add quantities for (a), (b), and (c).)						

Section III—SUPPLY OF WATER IN 1959—Continued

9. What percent of water from each source was measured by weir, flume, meter, or other measuring device—

(a) Water from surface sources? _____ %

(b) Water from ground sources? _____ %

(c) Water from another organization? _____ %

Section IV—DISPOSITION OF WATER IN 1959

INSTRUCTIONS for question 10: In this question show how the water obtained by this organization was disposed of. Give quantity of water in acre-feet or millions of gallons under "A" below. If acre-feet or millions of gallons cannot be given, report rate of flow in one of the units shown and the duration of flow under "B". If all entries cannot be given under either "A" or "B," report under "C" the percent of total supply which was disposed of by each method.

	A. Quantity of water		B. Rate and duration of water flow		C. Percent of total water supply
	Acre-feet	Million gallons	Cubic feet per minute	Miner's inches	
10. How much water was disposed of in 1959 by—					
(a) Delivery to individual users for irrigation of farm and ranch lands? (For acres reported in question 6.)					%
(b) Delivery to individual users for domestic or residential use?					%
(c) Delivery to other users or for other uses? (Describe under REMARKS.)					%
(d) Spillback, wastage, and water returned to streams and drainage ditches?					%
(e) Conveyance loss? (Seepage and evaporation from canals, and wastage not returned to streams. Do not include losses before water was received by this organization, after delivery to users, or losses in reservoirs.)					%
(f) Total water disposed of?					100%

(Add quantities for (a), (b), (c), (d), and (e) above. This total should be the same as the total for 8(d).)

11. What percent of the water delivered to individual users for irrigation of farm and ranch lands (reported in 10(a)) was measured at the point of delivery by weir, flume, meter, or other measuring device? _____ %

12. Is there an entry for conveyance loss for question 10(e) above? . No ☐ Yes ☐

(a) If "No," why was there no conveyance loss? _____

13. (a) Was any water from other sources or other organizations also used in 1959 to irrigate the same farm and ranch land to which water was delivered directly by this organization? . No ☐ Yes ☐

If "Yes"—

(b) Approximately what percent of the total amount of water used to irrigate the land in 1959 was delivered by this organization? _____ %

14. What was the average amount of water, from all sources, used per acre irrigated on this farm and ranch land to which water was delivered by this organization? _____ (in acre feet per year)

Section V—LOCATION OF SOURCES OF WATER AND FARM AND RANCH LANDS SUPPLIED WITH WATER, 1959

15. What is the name of stream or lake from which water was obtained?

16. What is the location of point (or points) at which water was obtained? (Describe location by giving section, township, and range, if known or describe by referring to the direction and distance from a nearby town or some point such as an important highway. (If water was diverted from a stream below a reservoir, report name of stream and location of diversion point, not the reservoir.)

Section	Township	Range	Section	Township	Range

Other description _____

REMARKS and explanations (please give question number to which remarks or explanations relate).

REMARKS—ContinuedForm 601-
(2-2-80)

21. Name and address of person who should be consulted if questions arise concerning this report.		
Name	County	Telephone No.
Post Office	State	
This report is substantially accurate and covers the period—		
From _____ to _____		
Date	Signature	Title of person signing the report

QUESTIONNAIRE

Form I-2 (7-5-59)	This census is authorized by Act of Congress, United States Code, Title 13, Sections 5, 9, 142, 221, 223, 224, requiring that the inquiries be answered completely and accurately, and guaranteeing that the information furnished be accorded confidential treatment. The census report cannot be used for purposes of taxation, investigation, or regulation.	Budget Bureau No. 41-087 Approval expires December 31, 1960
I-2 No. U.S. DEPARTMENT OF COMMERCE—BUREAU OF THE CENSUS PARSONS, KANSAS IRRIGATION REPORT I-2 CENSUS OF IRRIGATION 1959	DEFINITION: An irrigation organization is a group of two or more water users, a company, a corporation, or a governmental district or agency that operates facilities to supply water for irrigation of farm or ranch lands. It may be either a formal, legal organization or an informal or cooperative arrangement.	
Section I.—NAME AND TYPE OF ORGANIZATION		
1. Name of organization _____		
2. By what other name is this organization known? _____ None <input type="checkbox"/>		
Other names _____		
3. Is this organization— (Mark one.)		
(a) Unincorporated mutual or unincorporated cooperative? _____ <input type="checkbox"/>		
(b) Incorporated mutual or incorporated cooperative? _____ <input type="checkbox"/>		
(c) Irrigation district? _____ <input type="checkbox"/>		
(d) Operated by the U.S. Bureau of Reclamation? _____ <input type="checkbox"/>		
(e) Operated by the U.S. Bureau of Indian Affairs? _____ <input type="checkbox"/>		
(f) City or town? _____ <input type="checkbox"/>		
(g) Other? (Describe) _____ <input type="checkbox"/>		
INSTRUCTIONS for Sections II and III: All questions relating to water obtained and water delivered refer to physical flow of water during 1959 in the facilities operated by this organization, regardless of the ownership of the water or water rights, or whether payment was made for the water. Report any water physically delivered to facilities operated by another organization. Do not report transfers of water rights not accompanied by physical flow of water between the facilities of this organization and those of another.		
Section II.—WATER USERS AND ACRES SERVED IN 1959		
4. Water delivered to other irrigation organizations:		
(a) Did this organization deliver any water for the irrigation of farm and ranch lands in 1959 through laterals which were operated or maintained by others? _____ No <input type="checkbox"/> Yes <input type="checkbox"/>		
If "Yes":		
(1) Did any of these laterals receive cash payments from the owners or operators of farm or ranch lands? _____ No <input type="checkbox"/> Yes <input type="checkbox"/>		
(2) Did any of the laterals obtain water from any other source? _____ No <input type="checkbox"/> Yes <input type="checkbox"/>		
(If in doubt in regard to answers for questions (1) and (2), indicate "Yes.")		
(b) Did this organization deliver any water to any other irrigation organization in 1959? _____ No <input type="checkbox"/> Yes <input type="checkbox"/>		
If the answer is "Yes" for any of the questions in the shaded square—Consider organizations for which "Yes" is checked as other irrigation organizations to which water is delivered by this organization. List these organizations in question 10(c). (Include any organization, except an individual farm, which delivered any water for farm or ranch irrigation, even if irrigation is not the main purpose of the organization.)		
5. Water users served:		
(a) How many water users were served directly by this organization in 1959? _____ None <input type="checkbox"/> Number _____		
(Do not include water users served through other organizations for which "Yes" is checked in the shaded square in question 4.)		
Of these water users, how many were—		
(b) Farm or ranch irrigation water users? _____ None <input type="checkbox"/> Number _____		
(c) Residential or domestic users? _____ None <input type="checkbox"/> Number _____		
(d) Other? _____ None <input type="checkbox"/> Number _____		
(Describe) _____		
Add water users in (b), (c), and (d) and enter total here _____		
6. How many acres of farm and ranch lands were served directly by this organization in 1959? _____ None <input type="checkbox"/> Acres _____		
(This should be the area for which water users reported in 5(b) did receive or were entitled to receive water in 1959. Do not include land of nonfarm water users or of water users to whom the water was delivered through other organizations for which "Yes" was checked in the shaded square in question 4.)		
7. (a) How many of these acres (reported in 6) were actually irrigated in 1959 with water from this organization? _____ Acres _____		
(b) Or, if acres cannot be given for 7(a), what percent of these acres was actually irrigated in 1959 with water from this organization? _____ Percent _____		
Section III.—SUPPLY AND DISPOSITION OF WATER IN 1959		
INSTRUCTIONS for Section III: Give quantity of water obtained from each source in acre-feet. If measurements are not available, make the best possible estimate and explain under REMARKS how your estimates were made. Report actual amounts of water conveyed during 1959 in canals or pipes operated by this organization, regardless of ownership of the water or water rights or whether payment was made for the water. Omit any water used only for hydroelectric power. If water was stored in a reservoir: (1) Report in 8(a) the amount diverted from the reservoir directly into canals or pipes (except for hydroelectric power). (2) Do not include any release down stream below a reservoir. (3) If water was diverted from a stream below a reservoir, report in 8(a) the amount diverted from the stream, not the amount released from the reservoir.		
Section III.—SUPPLY AND DISPOSITION OF WATER IN 1959—Continued		
8. How much water was obtained in 1959—		
(a) From surface sources (i.e. from streams, lakes, reservoirs and drainage ditches) by diversion or pumping by this organization? _____		Acres-feet
(b) From ground water sources (i.e. from pumped wells, flowing wells, and springs) by this organization? _____		Acres-feet
(c) From a canal, pipe, or reservoir operated by another organization? (Give name, address, and quantity obtained from each, below.)		Acres-feet
Name _____		Acres-feet
Address _____		Acres-feet
Name _____		Acres-feet
Address _____		Acres-feet
(d) Total water supply obtained from all sources (Add quantities for (a), (b), and (c).) _____		Acres-feet
9. What percent of water from each source was measured by weir, flume, meter, or other measuring device—		
(a) Water from surface sources? _____ %		Acres-feet
(b) Water from ground sources? _____ %		Acres-feet
(c) Water from another organization? _____ %		Acres-feet
10. How much water was disposed of in 1959 by—		
(a) Delivery directly to individual users for irrigation of farm and ranch lands? _____		Acres-feet
(b) Delivery directly to individual users for domestic or residential use? _____		Acres-feet
(c) Delivery to other irrigation organizations? (Be sure to report for each organization for which the answer is checked "Yes" in the shaded square in question 4. Give name, address, and quantity of water delivered to each irrigation organization.)		Acres-feet
Name _____		Acres-feet
Address _____		Acres-feet
Name _____		Acres-feet
Address _____		Acres-feet
(If more than two, list others under REMARKS)		Acres-feet
(d) Delivery to other users or for other uses? (Describe under REMARKS.)		Acres-feet
(e) Spillback, wastage, and water returned to streams and drainage ditches? _____		Acres-feet
(f) Conveyance loss? (Seepage and evaporation from canals, and wastage not returned to streams. Do not include losses before water was received by this organization, losses after delivery to users, or losses in reservoirs.)		Acres-feet
(g) Total water disposed off— (Add (a), (b), (c), (d), (e), and (f). This total must equal total water supply as reported in question 8(d).) _____		Acres-feet
11. What percent of the water delivered to individual users for irrigation of farm and ranch lands (reported in 10(a)) was measured at the point of delivery by weir, flume, meter, or other measuring device? _____ %		
12. What percent of water delivered to other irrigation organizations (reported in 10(c)) was measured at point of delivery? (List in REMARKS organizations to which water was measured.) _____ %		
13. (a) Is there an entry for conveyance loss for question 10(f) above? _____ No <input type="checkbox"/> Yes <input type="checkbox"/>		
(b) If "No," why was there no conveyance loss? _____		
14. (a) Was any water from other sources or other organizations also used in 1959 to irrigate the same farm and ranch land to which water was delivered directly by this organization? _____ No <input type="checkbox"/> Yes <input type="checkbox"/>		
If "Yes":		
(b) Approximately what percent of the total amount of water used to irrigate this land in 1959 was delivered by this organization? _____ %		
15. What was the average amount of water, from all sources, used per acre irrigated on this farm and ranch land to which water was delivered directly by this organization? _____ /10		
(Acre-feet per acre)		

Section IV.—LOCATION OF SOURCES OF WATER AND POINTS OF DELIVERY TO OTHER ORGANIZATIONS

INSTRUCTIONS: Describe location by section, township, and range, if known, or describe by referring to the direction and distance from a nearby town or some point such as an important highway.

16. What is the location of the point or points at which water was received into the works of this organization—
(a) From **surface sources** (i.e., from streams, lakes, reservoirs, drainage ditches), by diversion or pumping **by this organization** (water reported in question 8(a))?

(1) Give name of **surface source** _____

(If water was diverted from a stream below a reservoir, report name of stream and location of diversion point, not the reservoir.)

(2) Give location of diversion points:

1. Sec. ____; T ____; R ____ 2. Sec. ____; T ____; R ____ 3. Sec. ____; T ____; R ____

or other description _____

- (b) From **another organization**. (Water reported in question 8(e).)

1. Sec. ____; T ____; R ____ 2. Sec. ____; T ____; R ____ 3. Sec. ____; T ____; R ____

Other description _____

17. What is the location of points at which this organization delivered water to other irrigation organizations (named in question 10(c))?

1. Sec. ____; T ____; R ____ 2. Sec. ____; T ____; R ____ 3. Sec. ____; T ____; R ____

Other description _____

Section V.—EXPENDITURES FOR WORKS AND EQUIPMENT, 1950-59

18. How much was spent by this organization for additional new works and equipment for irrigation and drainage between January 1, 1950, and December 31, 1959? None ☐ \$ _____/00

(Include expenditures for new construction, enlargement, or improvement of works, or for purchase of additional new equipment. Include only that portion of the cost of multiple-purpose works chargeable to the irrigation and drainage of farm and ranch lands, and the portion financed by this organization of the cost of works built jointly with another organization. Do not include expenditures for repairs and replacements, operation and maintenance, payments for works constructed before 1950, purchase of stock or shares in another irrigation organization, or contracts or payments for the purchase of works constructed by the U. S. Bureau of Reclamation or any other irrigation organization.)

REMARKS and explanations (please give question number to which remarks or explanations relate) _____

REMARKS—Continued _____

Form 40 1-2
10-2-59

Section VI.—CENSUS ENUMERATOR'S RECORD

19. In what state and drainage basin (or basins) are the following located—

(a) **Farm and ranch lands** served directly by this organization (question 6)? _____ State _____ Drainage basin _____
(Ask respondent to show you this service area on your enumerator's map.)

(b) **Sources of water** to this organization (question 16)? _____

(c) **Points of delivery** to other organizations (question 17)? _____

Note: If (a), (b), and (c) are located in more than one State or drainage basin, this is an interbasin organization. See Enumerator's Instructions for section VI.

20. Name and address of person who should be consulted if questions arise concerning this report:

Name _____ Title or relationship to organization _____

Business address _____ Telephone No. _____

Post Office _____ County _____ State _____

Enumerated by—

Signature _____ Date _____ Questionnaire No. _____

QUESTIONNAIRE

Form 401-3 (3-3-59)	<p>This census is authorized by Act of Congress, United States Code, Title 13, Sections 6, 9, 142, 221, 223, and 224, requiring that the inquiries be answered completely and accurately, and guaranteeing that the information furnished be accorded confidential treatment. The census report cannot be used for purposes of taxation, investigation, or regulation.</p>	Budget Bureau No. 41-5957 Approval expires December 31, 1960																														
U.S. DEPARTMENT OF COMMERCE—BUREAU OF THE CENSUS PARSONS, KANSAS I-3 IRRIGATION REPORT 1959 CENSUS OF IRRIGATION																																
Section I.—NAME AND TYPE OF ORGANIZATION																																
1. Name of organization _____																																
2. By what other name is this organization known? None <input type="checkbox"/> Other names _____																																
3. Is this organization—(Mark one.) (a) Unincorporated mutual or unincorporated cooperative? <input type="checkbox"/> (b) Incorporated mutual or incorporated cooperative? <input type="checkbox"/> (c) Irrigation district? <input type="checkbox"/> (d) Operated by the U.S. Bureau of Reclamation? <input type="checkbox"/> (e) Operated by the U.S. Bureau of Indian Affairs? <input type="checkbox"/> (f) City or town? <input type="checkbox"/> (g) Other? (Describe.) _____ <input type="checkbox"/>																																
INSTRUCTIONS for Sections II and III: All questions relating to water obtained and water delivered refer to physical flow of water during 1959 in the facilities operated by this organization, regardless of the ownership of the water or water rights, or whether payment was made for the water. Report any water physically delivered to facilities operated by another organization. Do not report transfers of water rights not accompanied by physical flow of water between the facilities of this organization and those of another.																																
Section II.—WATER RECEIVED FROM, AND DELIVERED TO, OTHER ORGANIZATIONS—WATER USERS AND ACRES SERVED IN 1959																																
4. Water received from another organization: (a) Did this organization receive any water directly in 1959 from works operated by any other organization? No <input type="checkbox"/> Yes <input type="checkbox"/> (b) If "Yes" give name of each organization, and report quantity of water received in 1959 and drainage basin in which the water was received by this organization—																																
Name _____ R. } Address _____ Name _____ R. } Address _____		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">Acre-feet received</th> <th style="width: 10%;">Drainage basin No.</th> </tr> </thead> <tbody> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </tbody> </table>	Acre-feet received	Drainage basin No.																												
Acre-feet received	Drainage basin No.																															
5. Water delivered to other irrigation organizations: (a) Did this organization deliver any water for the irrigation of farm and ranch lands in 1959 through laterals which were operated or maintained by others? No <input type="checkbox"/> Yes <input type="checkbox"/> If "Yes"— (1) Did any of these laterals receive cash payments from the owners or operators of farm or ranch lands? No <input type="checkbox"/> Yes <input type="checkbox"/> (2) Did any of these laterals obtain any water from any other source? No <input type="checkbox"/> Yes <input type="checkbox"/> (If in doubt in regard to answers for questions (1) and (2), indicate "Yes.") (b) Did this organization deliver water to any other irrigation organization in 1959? No <input type="checkbox"/> Yes <input type="checkbox"/> (Include any organization, except an individual farm, which delivered any water for farm or ranch irrigation, even if irrigation is not the main purpose of the organization.)																																
OFFICE USE ONLY																																
DEFINITION: An irrigation organization is a group of two or more water users, a company, a corporation, or a governmental district or agency that operates facilities to supply water for irrigation of farm or ranch lands. It may be either a formal, legal organization or an informal or cooperative arrangement. Please enter any explanation, for any question, under REMARKS.																																
Section III.—WATER RECEIVED FROM, AND DELIVERED TO, OTHER ORGANIZATIONS—WATER USERS AND ACRES SERVED IN 1959—Continued																																
(c) Give name and address of organizations for which "Yes" is checked in the shaded square in question 5. Report quantity of water delivered in 1959 and drainage basin in which delivery was made.																																
Name _____ D. } Address _____ Name _____ D. } Address _____ Name _____ D. } Address _____		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">Acre-feet delivered</th> <th style="width: 10%;">Drainage basin No.</th> </tr> </thead> <tbody> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </tbody> </table>	Acre-feet delivered	Drainage basin No.																												
Acre-feet delivered	Drainage basin No.																															
6. Water users served: (a) How many water users were served directly by this organization in 1959? None <input type="checkbox"/> Number _____ (Do not include water users served through other organizations for which "Yes" is checked in the shaded square to question 5.) (b) Of these water users, how many in each drainage basin were—																																
(1) Farm or ranch irrigation water users? <input type="checkbox"/> (2) Residential or domestic users? <input type="checkbox"/> (3) Other? <input type="checkbox"/> (Describe) _____ Add and enter total here →		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">None</th> <th style="width: 10%;">All basins</th> <th style="width: 10%;">D.B. No. —</th> <th style="width: 10%;">D.B. No. —</th> <th style="width: 10%;">D.B. No. —</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	None	All basins	D.B. No. —	D.B. No. —	D.B. No. —																									
None	All basins	D.B. No. —	D.B. No. —	D.B. No. —																												
7. Acres of farm and ranch lands served: (a) How many acres of farm and ranch lands were served directly by this organization in 1959 in each drainage basin? (This should be the area for which the water users reported in 6(b)(1) did receive or were entitled to receive water in 1959. Do not include land of nonfarm water users, or of water users to whom the water was delivered through other organizations for which "Yes" was checked in the shaded square in question 5.) None <input type="checkbox"/> Acres →																																
(b) How many of these acres (reported in 7(a)) were actually irrigated in 1959 in each drainage basin with water from this organization? Acres →		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">All basins</th> <th style="width: 10%;">D.B. No. —</th> <th style="width: 10%;">D.B. No. —</th> <th style="width: 10%;">D.B. No. —</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	All basins	D.B. No. —	D.B. No. —	D.B. No. —																										
All basins	D.B. No. —	D.B. No. —	D.B. No. —																													

Section III.—SUPPLY AND DISPOSITION OF WATER IN 1959

INSTRUCTIONS for Section III: Give quantity of water obtained and disposed of in each drainage basin in acre-feet. If measurements are not available, make the best possible estimate. **Determine drainage basins** from census enumerator's maps. Report sources (and diversion) of water in the basin in which the water enters (or leaves) canals or pipes operated by this organization. For every item, the sum of entries for individual basins should equal the total for that item for all basins.

Water to be included: Report actual amounts of water conveyed during 1959 in facilities operated by this organization regardless of ownership of water or water rights, or whether payment was made for the water. Report all water transferred in a canal or pipe from one drainage basin to another for any purpose. **Omit** water diverted or released **only** for hydroelectric power, unless transferred to another basin. Any other discharge of water from a canal or pipe into a natural stream or drainage ditch should be reported under 9(c).

Reservoirs: (1) Do not report any water released into the stream channel from an on-stream reservoir. (2) If water was diverted from a stream below a reservoir, consider the stream rather than the reservoir as the source of water, and report the amount diverted from the stream in the basin where diverted. (3) Water taken from a reservoir directly into a canal or pipe should be reported as diverted from the reservoir. If a reservoir operated by this organization received only natural inflows, report the amount diverted from the reservoir under 8(a). If water was conveyed into a reservoir in pipes or canals, report this inflow in 8(b), the source of the water under 8(a), (b), (c), or (e), and the diversion from the reservoir under 8(i).

See enumerator's instructions for further explanations.

		Quantity of water in acre-feet			
		Totals, all basins	D.B. No. _____	D.B. No. _____	D.B. No. _____
8. Water obtained in 1959 in each drainage basin—					
(a) From surface sources (i.e., from streams, lakes, reservoirs, drainage ditches) by diversion or pumping by this organization					
(b) From ground water sources (i.e., from pumped wells, flowing wells, and springs) by this organization					
(c) From canal, pipe, or reservoir operated by another organization (total reported in question 4)					
(d) Total water obtained by this organization in each basin (a + b + c)					
Interbasin transfers—					
(e) Plus water imported to each basin in works operated by this organization (Give quantity entering basin at drainage basin boundary.)					
		From which drainage basin	From D.B. No. _____	From D.B. No. _____	From D.B. No. _____
(f) Minus water exported from each basin in works operated by this organization (Give quantity at drainage basin boundary.)					
		To which drainage basin	To D.B. No. _____	To D.B. No. _____	To D.B. No. _____
(g) Equals water supply for storage or disposition by this organization in each basin (d + e - f)					
Off-stream storage—					
(h) Less water obtained (included in 8(a), (b), (c), or (e) above) and conveyed into reservoirs operated by this organization					
(i) Plus water diverted from the same reservoirs into canals or pipes					
(j) Equals total water supply for disposition by this organization in each basin (g - h + i)					
9. Water disposed of in 1959 in each drainage basin by—					
(a) Delivery directly to individual users for irrigation of farm and ranch lands (Acres reported in question 7.)					
(b) Delivery directly to individual users for domestic or residential use (Water users reported in question 6(b) (2).)					
(c) Delivery to other irrigation organizations, in basin where delivered to works operated by the other organization, reported in 5(e)					
(d) Delivery to other users or for other uses (Describe under REMARKS.)					
(e) Release from a canal or pipe to a stream or drainage ditch (Include wastage, spillback, or release for downstream diversion.)					
(f) Conveyance loss within each drainage basin (Seepage and evaporation from canals, and wastage not returned to streams. Do not include losses before water was received by this organization, losses after delivery to users or to other organizations, or losses in reservoirs.)					
(g) Total water disposed of by this organization in each basin (a + b + c + d + e + f) (These totals must equal total water supply for disposition (question 8(j)) in each basin.)					
10. What percent of the water from each source (questions 8(a), (b), and (c) above) was measured by weir, flume, meter, or other measuring device—					
(a) Water from surface sources? %					
(b) Water from ground sources? %					
(c) Water from another organization? %					
(If entry is not 100% for each of questions 10(a), (b), and (c), explain under REMARKS: (1) what percent of each was measured in each drainage basin, (2) how each unmeasured quantity was estimated.)					
11. What percent of the water delivered to individual users for irrigation of farm and ranch lands, reported in 9(a), was measured at the point of delivery by weir, flume, meter, or other measuring device? %					
(If entry is not 100%, explain under REMARKS: (1) What percent was measured in each drainage basin, and (2) How unmeasured quantities were determined.)					
12. What percent of water delivered to other irrigation organizations, reported in 9(e) was measured at point of delivery? %					
(If entry is not 100%, explain under REMARKS how each quantity in question 5(e) was estimated.)					
13. (a) Is there an entry for conveyance loss for question 9(f) for each drainage basin? No <input type="checkbox"/> Yes <input type="checkbox"/>					
(b) If "No," why was there no conveyance loss?					
14. (a) Was any water from other sources or other organizations also used in 1959 to irrigate the same farm and ranch land to which water was delivered directly by this organization? No <input type="checkbox"/> Yes <input type="checkbox"/>					
(b) Approximately what percent of the total amount of water used to irrigate this land in 1959 was delivered by this organization? %					
(If different in each basin, give the percent for each under REMARKS.)					
15. What was the average amount of water, from all sources, used per acre irrigated on this farm and ranch land to which water was delivered directly by this organization? /10					
(If different in each basin, give amount for each under REMARKS.)					

QUESTIONNAIRE

Section IV.—LOCATION OF WORKS OPERATED BY THIS ORGANIZATION

Mark the following with colored pencil on the census enumerator's map or other suitable map of the enterprise. Under REMARKS, list the map used for this organization. (See enumerator's instructions.)

16. Sources of water obtained by this organization—

- (a) From surface sources (i.e., streams, lakes, reservoirs, drainage ditches) by diversion or pumping *by this organization* (water reported in question 8(a)). Label S₁, S₂, etc.

Give name of surface source or sources.

S₁ _____

S₂ _____

- (b) From *another organization*, at point where water enters works operated by this organization. Label R₁, R₂, etc., as reported in question 4(b).

17. Points of diversion from off-stream storage operated by this organization for which amount diverted is given in question 8(i). Label O₁, O₂, etc. Give name of reservoir.

O₁ _____

18. Points where water is delivered to works operated by other irrigation organizations. Label D₁, D₂, etc., as reported in question 5(c).

19. Area served directly by this organization—

Outline and shade in color the area within which water is delivered directly to individual farm and residential water users (as reported in question 6(b)).

Section V.—EXPENDITURES FOR WORKS AND EQUIPMENT, 1950-59

20. How much was spent by this organization for additional new works and equipment for irrigation and drainage between January 1, 1950, and December 31, 1959, in each drainage basin? None ☐ \$ _____/00

Total all basins	D.B. No. _____	D.B. No. _____	D.B. No. _____

Report by drainage basin according to the basin in which the new works and equipment are physically located.

(Include expenditures for new construction, enlargement, or improvement of works, or for purchase of additional new equipment. Include only that portion of the cost of multiple-purpose works chargeable to the irrigation and drainage of farm and ranch lands, and the portion financed by this organization of the cost of works built jointly with another organization. Do not include expenditures for repairs and replacements, operation and maintenance, payments for works constructed before 1950, purchase of water rights, land, or stock or shares in another irrigation organization, or contracts or payments for the purchase of works constructed by the U.S. Bureau of Reclamation or any other irrigation organization.)


REMARKS: _____

REMARKS—Continued

Section VI.—CENSUS ENUMERATOR'S RECORD

21. Name and address of person who should be consulted if questions arise concerning this report:

Name		Title or relationship to organization
Business address		Telephone No.
Post Office	County	State
Enumerated by—		
Signature	Date	Questionnaire No.



UNITED STATES CENSUS OF AGRICULTURE 1959

The United States

**DRAINAGE OF AGRICULTURAL
LANDS**

U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS

U.S. CENSUS OF AGRICULTURE : 1959

Final Report—Vol. IV

DRAINAGE PROJECTS • SIZE

TYPE • AREA SERVED

COST • WORKS

The United States

DRAINAGE OF AGRICULTURAL LANDS

Prepared under the supervision of
RAY HURLEY, Chief
Agriculture Division



U.S. DEPARTMENT OF COMMERCE

Luther H. Hodges, *Secretary*

BUREAU OF THE CENSUS

Richard M. Scammon, *Director (From May 1, 1961)*

Robert W. Burgess, *Director (To March 3, 1961)*





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Vol. 4

Statistics in this report supersede figures shown in Series AC59-1 and AC59-2,
Preliminary Reports

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U.S. Government Printing Office, Washington, D.C., 1961

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or any of the Field Offices of the Department of Commerce. Price \$2.25

PREFACE

Volume IV—Drainage of Agricultural Lands—presents the results of the 1960 Census of Drainage. Data were collected for both organized drainage projects and for individually owned tracts, provided 500 or more acres of land were benefited for agriculture by installed works. The information was collected by both mail and field enumeration from officials and records of organized projects, from county and court records, and from individuals who had knowledge of known projects.

The 1960 Census of Drainage was taken in conformity with the Act of Congress of August 31, 1954 (amended August 1957), which codified Title 13, United States Code.

The planning of the census and the compilation of the statistics, in large measure, were carried on by Hilton E. Robison, Drainage Statistician, under the supervision of Ray Hurley, Chief, Agriculture Division. Assistance was given by Warder B. Jenkins, Assistant Chief, William B. Kauffman, Henry A. Tucker, and Helen D. Turner. The field canvass was conducted under the supervision of Robert B. Voight, then Chief, Field Division, by enumerators trained by employees of the Agriculture Division. The maps were prepared under the supervision of William T. Fay, Geographer.

Acknowledgment is made of the technical assistance of a Special Federal Agency Committee—1959 Censuses of Irrigation and Drainage—and of the central office and local personnel of the United States Soil Conservation Service.

December 1961

UNITED STATES CENSUS OF AGRICULTURE: 1959

FINAL REPORTS

Volume I—Counties—A separate part for each State. Statistics on number of farms; farm characteristics; acreage in farms; cropland and other uses of land; land-use practices; irrigation; farm facilities and equipment; farm labor; farm expenditures; use of commercial fertilizer; number and kind of livestock; acres and production of crops; value of farm products; characteristics of commercial farms, farms classified by tenure, by size, type, and economic class; and comparative data from the 1954 Census of Agriculture.

Volume I is published in 54 parts as follows:

Part	State or States	Part	State or States	Part	State or States
1	New England States:	19	West North Central—Continued	38	Mountain:
2	Maine.	20	South Dakota.	39	Montana.
3	New Hampshire.	21	Nebraska.	40	Idaho.
4	Vermont.		Kansas.	41	Wyoming.
5	Massachusetts.	22	South Atlantic:	42	Colorado.
6	Rhode Island.	23	Delaware.	43	New Mexico.
	Connecticut.	24	Maryland.	44	Arizona.
	Middle Atlantic States:	25	Virginia.	45	Utah.
7	New York.	26	West Virginia.		Nevada.
8	New Jersey.	27	North Carolina.	46	Pacific:
9	Pennsylvania.	28	South Carolina.	47	Washington.
	East North Central:	29	Georgia.	48	Oregon.
10	Ohio.		Florida.	49	California.
11	Indiana.	30	East South Central:	50	Alaska.
12	Illinois.	31	Kentucky.		Hawaii.
13	Michigan.	32	Tennessee.	51	Other Areas:
14	Wisconsin.	33	Alabama.	52	American Samoa.
	West North Central:		Mississippi.	53	Guam.
15	Minnesota.	34	West South Central:	54	Puerto Rico.
16	Iowa.	35	Arkansas.		Virgin Islands.
17	Missouri.	36	Louisiana.		
18	North Dakota.	37	Oklahoma.		
			Texas.		

Volume II—General Report.—Statistics by Subjects, United States Census of Agriculture, 1959. Summary data and analyses of the data by States, for geographic divisions, and for the United States, by subjects, as illustrated by the chapter titles listed below:

Chapter	Title	Chapter	Title
I	Farms and Land in Farms.	VII	Field Crops and Vegetables.
II	Age, Residence, Years on Farm, Work Off Farm.	VIII	Fruits and Nuts, Horticultural Specialties, Forest Products.
III	Farm Facilities, Farm Equipment.	IX	Value of Farm Products.
IV	Farm Labor, Use of Fertilizer, Farm Expenditures, and Cash Rent.	X	Color, Race, and Tenure of Farm Operator.
V	Size of Farm.	XI	Economic Class of Farm.
VI	Livestock and Livestock Products.	XII	Type of Farm.

Volume III—Irrigation of Agricultural Lands. Western States (Dry Areas)—Data by States for drainage basins and a summary for the area, including number and types of irrigation organizations, source of water, expenditures for works and equipment since 1950, water used and acres served for irrigation purposes.

Volume IV—Drainage of Agricultural Lands. Data by States on land in drainage organizations, number and types of organizations, cost of drainage and drainage works.

Volume V—Special Reports, Part 1.—Horticultural Specialties. Statistics by States and a summary for the United States presenting number and kinds of operations; gross receipts and/or gross sales; sales of nursery products, flower seed, vegetables grown under glass, and propagated mushrooms; number of container-grown plants; inventory products; sales of bulb crops; employment; structures and equipment.

Titles of additional parts of this volume are not available as this report goes to press.

DRAINAGE OF AGRICULTURAL LANDS

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INTRODUCTION

(VII)

INTRODUCTION

DRAINAGE OF AGRICULTURAL LANDS

Presentation of data.—This volume presents statistics on drainage of agricultural lands collected in the 1960 Census of Drainage. The 1960 Census included drainage projects that were benefiting 500 or more acres of agricultural land. The statistics are for areas benefited, 1960, and for drainage operations for the 10-year period, 1950 through 1959. In the presentation selected comparative data are included for earlier censuses. In general, the censuses of drainage have primarily covered community or public drainage undertakings although individual ownership undertakings have been included if the area benefited met the minimum acres requirement.

Data are presented for counties, for States, and for the combination of States, which comprise the conterminous United States, in which drainage enterprises were reported. Maps are utilized to show the approximate location and boundaries of the areas receiving drainage benefits, as ascertained in 1960. Data for the conterminous United States are first presented in a series of summary tables and in an overall map. Several summary tables include information for States. These summary tables and the general drainage map are followed by the tabular data and a map for each State. Each State presentation is accompanied by detailed information for individual counties.

General discussion.—Agricultural drainage refers to the removal, by artificial means, of excess water to improve the condition of land used or to be used for agriculture. Excess water either in or on the soil—whether a temporary or a permanent condition—influences farm production, farm income, and farm values. Too much water in the soil adversely affects crop growth and the timely performance of operations such as tillage, seeding, cultivating, and harvesting including pasturing. Accumulation of excess water may come about from heavy local precipitation; from runoff from upstream areas; from low-lying land in depressions, ponds, and lakebeds; from tidal action in coastal areas; from soil profiles which restrict subsoil drainage; from buildup of a high water table directly as a result of irrigation or from seepage; or from artesian or other underground movement of water.

Good management of land requires management of water. Drainage, irrigation, and flood control, all requiring management, often are interrelated. Large investments of capital have been made by the Federal government and other public or quasi-public organizations; by cooperating groups of individuals; or by single individuals to restrict, provide, or regulate water supplies. On the drainage side, Federal assistance has included measures which provide improved major drainage outlets which may be interrelated with flood control. Secondary drainage works and drainage improvements on private land have been usually undertaken by non-Federal interests, including private landowners. More recently, increased Federal drainage assistance has been available to local agencies, with some limitations, through the watershed protection and flood prevention program authorized under Public Law 566 of 1954 and amendments.

Drainage of land for agriculture has generally been recognized, directly or tacitly, as a public good. As a general rule, the drainage of an individual's land cannot be carried out without the construction of an artificial drain or the improvement of a natural watercourse which affects the land of other individuals. Usually, the improvement of an outlet drain benefits more than one farm

and the cost is greater than any individual wants to assume. Most States have passed laws permitting or encouraging the organization of public corporations or local improvement districts for this purpose.

Previous to the earliest acts for establishing public drains, a number of the States had recognized the right of every landowner to a drainage outlet by providing that an owner desiring drainage could apply to a designated official and upon payment of damages, if the necessity were proved, secure easement to construct and maintain a private drain across his neighbor's land. The drainage laws for the various States have given rise to two principal types of organization and to several minor types. The corporate district and the county drain are the principal types. The first is governed by its own officers, who either are elected by the residents or landowners of the district or are specially appointed by the authority which creates the enterprise. The county drain is established and constructed as any other public work or local improvement, the enterprise being managed by regular officers who have charge of all these enterprises in their county. Some enterprises are administered by a commission or board consisting of one or more officials of the county and one or more members selected by the owners of the land assessed for the cost of the drainage. The minor types of organizations include (1) township drains, which are similar in form to county drains but are controlled by officers of the townships; (2) State drainage projects, controlled by State officials, usually embracing some State land; (3) irrigation districts, similar in character to drainage districts, that have undertaken drainage of land in those districts; (4) commercial companies reclaiming and improving wetland for sale; (5) cooperative or mutual undertakings without formal corporate organization; and (6) individual landowners including farm partnerships and farm corporations.

Physiographic features and the amount of water that should be removed from both surface and subsoil have a direct bearing on the need for, and the nature of, drainage works. Drainage improvements can be in the nature of straightening and deepening natural water channels; construction or replacement of drains, both open and closed types; installation or use of pumps and drainage wells; construction or repair of levees, floodgates, culverts, and bridges; and land leveling. Millions of acres now in agricultural use have been fitted for crop or livestock production by one or more of the methods which hasten the removal of excess water. Some of the most productive lands of the Nation have been improved by drainage and the installation of a drainage work increases agricultural output.

Drainage problems still exist on many acres of farmland. Old or new techniques can make these lands more physically suitable for crops and pasture. A part of the lands still inadequately drained are interspersed with lands adequately provided with drainage. Often an organized drainage district or other collective drainage enterprise has provided the main channels and an outlet for water flow so that remaining works need only be installed by individual landowners. There are extensive areas of wetlands, without or within farm boundaries, without any artificial drainage, whatever, which can be physically improved for crops and pasture. It may be questionable whether it is advisable to make such lands fit for agriculture, or even to make all lands presently in farms fit for a higher type of agriculture,

by means of drainage. This is especially true in periods of farm surpluses. Often wildlife propagation and recreational activities may be more desirable alternative uses of wetlands. There are cases where the health of a community must be given consideration. No doubt the individual landowner usually visualizes some economic gain before he undertakes a drainage improvement. Economic as well as social factors need to be weighed to determine the feasibility and advisability of reclaiming land for farming. Prevailing costs and benefits have not always been sufficient to warrant the maintenance of drainage works after their installation. With the passage of time, it becomes difficult to say whether certain drainage works are still a benefit to agriculture.

History of the Census of Drainage.—Practically all drained agricultural lands lie within the boundaries of operated farms. Such lands may be either inside or outside the boundaries of an organized enterprise that provides drainage works for improving lands for agriculture. The drains and other works for control of water that a farmowner installs upon his own farm, either within or without the boundaries of an organized drainage enterprise, are likely to be either supplemental to or entirely independent of the works installed by an organized enterprise. Officials of an organized enterprise cannot be expected to know in detail the total acres drained or the nature of all drainage works, including those constructed by individual landowners, within the boundaries of their districts. Therefore, the first efforts at gathering information for drainage attempted the full coverage of drainage for farmlands, that is, drainage by both organized enterprises and by individual landowners.

Through the years, a varying amount of basic information has been obtained in respect to the amount and location of farmlands which have been improved by drainage, the type of organization under which drainage has been carried out, the kind of works installed, the purpose of the drainage, the adequacy of the drainage, the capital invested, and the financial situation of the enterprise established for carrying on drainage improvements. Recently, more emphasis is being placed on additions to the drained area in respect to acreage, physical works, and costs. It has been learned that many of the needed data concerning the extent and adequacy of drainage cannot be answered satisfactorily by local officials or individual landowners. Some organizations cease to function after the drainage work has been accomplished and, for farm drainage, the individual landowner either may be difficult to locate in the case of tenant-operated land or may not be in full possession of knowledge of drains long-established on his holdings.

The first census of drainage in the United States was taken in 1920. No provision for inquiries regarding drainage was made in any prior census. In 1920, some facts concerning drainage on farms were collected in the general census of agriculture, while those for drainage enterprises were obtained in a special canvass of those enterprises. Drainage enterprises were to comprise public and private corporations and local improvement districts organized to secure the drainage of land to be used for agricultural purposes; also government projects and other organizations engaged in extensive land drainage work. Questionnaires were obtained also for drainage undertakings, each to benefit 500 acres or more, by individual farmowners. Land furnished protection from overflow by levees, dikes, or embankments was not included unless some form of drainage works had been constructed on the protected land. The land in drainage enterprises was the acreage that had been or was to be benefited by drainage works constructed by the enterprises and, except in a few instances, was the land assessed to pay the cost of the enterprises. The exceptions were irrigation projects installing drains to benefit land damaged by seepage or by alkali as a result of the irrigation, and assessing the cost against the entire irrigation enterprise instead of against only the area needing drainage or protection. Under such circumstances the area thus assessed, but not need-

ing drainage, was omitted from the tabulations. Enterprise data were published for 34 States. No enterprises were found in Alabama, Virginia, West Virginia, or in the 11 States north of the Potomac River.

In 1930, a small amount of data was gathered from farm operators in the general census of agriculture in respect to drainage on farms. Figures were published for the number of farms reporting drainage and the acreage of farmland provided with drainage. A special questionnaire was utilized to cover organized drainage enterprises. Again, the term "drainage enterprise" was broadened to include a tract of farmland of 500 or more acres drained as a private undertaking without legal organization. The area of a drainage enterprise included all the land within the boundaries of the enterprise. It included all land assessed for the cost of the enterprise, and may have included land not assessed because exempted for special reasons. Where the drainage was performed by an irrigation district, that district was also the drainage enterprise. Drainage enterprise data were published for 35 States in 1930. These included Virginia in addition to the 34 States for which data were published in 1920.

Since 1930, no effort has been made to obtain drainage data on the general questionnaire for the census of agriculture. The acreage drained in a particular farm is largely a matter of opinion of the operator, particularly so in the case of a tenant-operator, as to the area actually benefited. The 1930 Drainage Report stated that both the number of farms reporting drainage and the acreage drained were doubtless too low, due to the fact that some enumerators failed to secure answers to the farm drainage questions on the general farm questionnaire.

The third census of drainage enterprises was taken in 1940. A drainage enterprise, for the 1940 Census of Drainage, was defined as the area (1) organized in one drainage district, or (2) assessed for the same public drain, or (3) in corporate or in private ownership drained by works operated as one undertaking. Privately owned enterprises draining less than 500 acres each were omitted from the census, but all enterprises established under State drainage laws were included. Drainage statistics were presented for 38 States. In addition to the 35 States for which enterprises had been found in the 1930 enumeration, enterprises were located in, and statistics were published for, Alabama, Delaware, and Maryland.

In the 1940 Census of Drainage Report, in the discussion of the classification by character of enterprise, mention was made of the difficulty of applying the definitions to distinguish between drainage districts and county drains in all States. In Iowa, for example, almost all of the enterprises were classed as county drains although by law they were named drainage districts. In several other States an enterprise with the term "district," as used locally or even in the statutes, was classified differently. It was said that the district form of organization, being under the management of its own officials, was generally considered more suited to the larger and more costly undertakings, as giving the landowners the greatest degree of local control. The county drain form, administered by county officials, was generally more economical in administrative costs for small enterprises in which the problems of engineering and financing are relatively simple. This form was most common in those States where drainage was promoted for improving land already in farms. The district form was general in those areas where reclamation and development of unimproved lands for making new farms had been an important consideration in promoting the drainage enterprises.

Prior to 1950, all organized drainage enterprises, regardless of size, were covered in each census of drainage. A report was obtained for each enterprise that had constructed drainage works which were still serving agricultural lands or that had contributed to the capital invested in existing works. All unorganized drainage operations on agricultural lands of 500 or more drained acres, conducted by individuals or cooperative groups, were also covered.

For 1950, it was decided to restrict the enumeration of drainage projects to drained agricultural areas of 500 acres or more, regardless of whether they were in an organized enterprise or represented a private operation. Consideration was given to both the expense and difficulty of gathering information for individuals or officials for small acreages of drained lands. These items are more pronounced for those enterprises which have been superseded. Many of the small enterprises had been superseded by later enterprises. For that reason it was decided, in advance of the 1950 Census date, to eliminate enterprises of less than 500 acres from the enumeration. For 1950, a special effort was made to obtain reports for cooperative or group drainage projects to which the Soil Conservation Service had rendered technical assistance.

The decision to limit the 1950 Census of Drainage to enterprises of 500 or more drained acres was based on the following facts. In 1940, there were 79,220 reports secured in the Census of Drainage. Many of these represented enterprises which had been superseded by later enterprises. Although these superseded enterprises were no longer in existence, the works which they had constructed were still serving to drain agricultural lands, or these enterprises had contributed to the capital invested in existing works. Of the 79,220 total, 41,690 were less than 500 acres in size. Of approximately 133 million acres in all enterprises in 1940, only 9 million acres were accounted for by enterprises under 500 acres. Thus, slightly more than half of the enterprises containing about seven percent of the land in enterprises were represented by these small operations. In 1940, about 87 million acres of land were drained. The difference between 133 million and 87 million represented lands which were drained by more than one enterprise. Considerably more than one-half of the land in enterprises of less than 500 acres was shown to be in overlapped enterprises. The exclusion of the very small enterprises had a material effect on the number of enterprises covered but had only a minor effect on the number of drained acres.

Prior to the 1950 Census of Drainage, a preliminary field test was conducted in Ohio, Indiana, and Illinois to determine whether a satisfactory method of enumerating overlapped drainage enterprises had been developed. It was learned that in most of the counties having county drains, there were county maps showing the land in drainage enterprises. These maps were usually prepared by the county engineer or other qualified person. The existing maps and the special knowledge of county engineers or surveyors as to the location of the drained lands could be used to best advantage if overlapped lands in enterprises could be eliminated from the enumeration. This elimination would greatly reduce the cost of both field and office work. It was decided to treat the drained lands of each county, in States having predominantly county drains, as a single enterprise. Thus, only one questionnaire would be filled per county in such States. Most of the overlapped enterprises, and also those under 500 acres, were in three States—Ohio, Indiana, and Michigan. The same economies which prompted the Census to use one questionnaire per county in these three States led to the use of a single questionnaire per county also in Delaware, Iowa, Kentucky, Minnesota, Oklahoma, North Dakota, and South Dakota. This group of ten States was designated as "county-drain" States, although in Delaware the predominant form of drainage organization was the drainage district. An abbreviated questionnaire was used in these "county-drain" States as contrasted with the reporting form used in the other so-called "drainage-district" States.

In 1950, the enumerators who were charged with the responsibility of securing a drainage questionnaire for irrigation enterprises having their own drainage were often unable to obtain the required information concerning the area and location of the lands benefited by drainage. They could not readily secure an allocation of cost, collections, and indebtedness for the drainage

works separately from the irrigation works. Because of this difficulty, the 1950 information concerning drained lands was supplemented by data secured on the questionnaire for the census of irrigation. In doing so, the restriction of 500 or more drained acres was not applied to irrigation enterprises having their own drainage.

Drainage enterprises were enumerated in 40 States in 1950. Enterprises were enumerated in New Jersey and New York for the first time. The eight States with no drainage enterprises, for the purpose of the census, were the six New England States, Pennsylvania, and West Virginia.

The 1960 Census of Drainage was the fifth of a nationwide series to obtain data in respect to removal of excess water from agricultural lands. After the 1950 experience, a change was considered necessary in the kind of data that could or should be secured in a drainage enumeration. Lands drained solely because of irrigation, to remove seepage water, or to prevent alkali accumulation, were excluded from the Census of Drainage. The theory underlying the change was that these irrigated lands were not first made available for agricultural use through the removal of excess water from naturally wetlands. (See discussion under "Scope of the 1960 Census of Drainage.")

Legal basis for the Census of Drainage.—Each of the five censuses of drainage has been authorized by an Act of Congress. "Title 13, United States Code—Census," codified in August 1954, and amended in August 1957, and September 1960, is now the legal basis for the censuses of agriculture and other censuses, and surveys conducted by the Bureau of the Census. Section 142, paragraph (b), made provision for the Census of Drainage, as follows:

"The Secretary shall, in conjunction with the census of agriculture directed to be taken in October 1959 and each tenth year thereafter, take a census of irrigation and drainage."

Section 5 of Title 13 made provision for the preparation of forms and questionnaires in this manner—

"The Secretary shall prepare schedules, and shall determine the inquiries, and the number, form and subdivision thereof, for the statistics, surveys, and censuses provided for in this title." Under authority granted by Section 4 of Title 13, the Secretary of Commerce delegated "the functions and duties imposed upon him by this title" to the Director of the Bureau of the Census.

ENUMERATION FORMS AND PROCEDURES

Preparatory work.—Within the framework of the Act providing for the 1960 Census of Drainage, the scope of the enumeration and the nature and content of the forms and procedures used for taking the census were determined by the staff of the Bureau. In making the decision as to which drainage projects to enumerate, the form of the questions to be asked, and the enumerative procedures to be followed, the staff gave consideration to the experience gained in earlier censuses and to the results of a pretest of the proposed questionnaire and procedures. Careful consideration was given to availability of data from other sources, the adequacy of the data that might be obtained, and the need for and the usefulness of the data.

Two special committees provided advice and counsel to the Bureau. A Special Federal Agency Committee, for the 1959 Censuses of Irrigation and Drainage, comprised representatives of the following agencies: Agricultural Conservation Program Service, Agricultural Research Service, Rural Electrification Administration, and Soil Conservation Service of the U.S. Department of Agriculture; Bureau of Indian Affairs and Bureau of Reclamation of the U.S. Department of the Interior; and the Bureau of the Census. A second Committee, the Special Advisory Committee for the 1959 Census of Agriculture, reviewed the later stages of the planning. This committee consisted of one repre-

sentative from each of the following: Agricultural Publishers Association; American Association of Land-Grant Colleges and State Universities; American Farm Bureau Federation; American Farm Economic Association; American Statistical Association; Farm Equipment Institute; National Association of Commissioners, Secretaries, and Directors of Agriculture; National Council of Farmer Cooperatives; National Farmers' Union; National Grange; Rural Sociological Society; and the U.S. Department of Agriculture. A representative of the Bureau of the Budget was in attendance at all meetings of this Committee.

Scope of the 1960 Census of Drainage.—Since drainage of irrigated lands for the purpose of controlling alkali or seepage from irrigation generally represents an integral part of the operations performed by irrigation enterprises, such drainage was excluded in the 1960 Census. The 1950 experience had indicated the impracticability of apportioning financial data to drainage, as distinct from irrigation. Drainage for control of alkali or seepage from irrigation was excluded even in instances where the drainage was handled by a separate organization from that which provided the irrigation. In such cases the drainage organization was often a subsidiary of the irrigation organization and, even when not subsidiary, the organizations often shared facilities. Part or all of the maintenance was frequently handled by the irrigation organization. An attempt was made, however, to include drainage operations benefiting naturally wetlands even though such lands may have been irrigated.

The 1950 experience also led to the inclusion in 1960 of inquiries designed to identify extensive contiguous tracts within the project area that were either not being used for agriculture or were receiving no drainage benefits from the facilities provided.

The principle established in 1950 for the "county-drain" States of obtaining one report for all drains under one management was extended in 1960 to all States. The 1950 plan for "county-drain" States was modified to require separate reports for drainage projects under separate management.

The 1960 enumeration, as in 1950, included all projects which provided drainage benefits to 500 or more acres of agricultural lands. A project might represent an undertaking by a legally organized drainage district; by a special district organized primarily to provide some other service; by some other governmental unit; by an individual landowner, farm partnership, or farm corporation; or by a cooperative group of landowners controlling a joint undertaking or carrying out their respective portions of one overall plan.

For intercounty projects separate reports, as in prior censuses, were required for each county part in order to provide drainage data at the county level.

Projects for which the drains still were functioning were included even though the organization responsible for the drains no longer existed. An exception was made for projects taken over by a later organization. If, however, there had been any drainage activity by the superseded organization during the 10-year period, 1950-1959, it was also included.

Information was obtained on the area of the project and for drainage activities for the 10-year period since the preceding census. Where possible, information obtained for the project in 1950, such as the area in 1950 and the mapping of this area, was utilized in 1960 and only the activities and changes since 1950 were recorded by the enumerator in the 1960 enumeration. However, if the 1950 Census records were incomplete, or indicated a need for verification, or if the recorded information was found to be incorrect, the enumerator was required to disregard any information given him for the 1950 Census and to obtain complete information for the project for 1960.

Pretest of questionnaire and procedures.—A pretest of the questionnaire and field procedures was conducted in July 1959. Four counties were selected to provide a fairly representative

cross-section of the problems expected in the enumeration. Vanderburgh County, Indiana, and Henderson County, Kentucky, represented county-drain systems with drains under control of county officials. The county surveyor was directly responsible for county-drain work in Vanderburgh County, Indiana, and a county Board of Drainage Commissioners was responsible for the county ditches in Henderson County, Kentucky. Indiana and Kentucky were enumerated in 1950 as "county-drain" States, one questionnaire being used to enumerate all drainage projects in each county. Massac County and Gallatin County, Illinois, were selected as representative of "drainage-district" areas. For these two counties, each drainage district had its own officials with varied connections with the county government. Massac County was selected particularly to test the effectiveness and adequacy of the questionnaire and procedures for handling projects that extend into two or more counties. [The 1950 enumeration included 618 such projects, in all areas, accounting for 1,292 of the 6,132 reports (other than "irrigation enterprises") enumerated in the Census of Drainage] included in the tabulations for that year.] Gallatin County had projects of several types of organization. It offered experience in handling problems involving overlapping of projects, in obtaining information from a variety of sources, and in obtaining information for projects for which there was no longer any active management or person responsible.

Advance listing of drainage projects.—Just prior to the field enumeration for the 1960 Census of Drainage, a listing of drainage projects was prepared to insure reasonably complete coverage. This listing included the following:

1. All projects included in the 1950 tabulations.
2. Additional projects, listed or enumerated in 1950 but excluded from the tabulations, where there was a possibility that such projects might qualify for inclusion in 1960. These additional projects included those in the planning stage in 1950, projects started but not completed, and projects reported inactive for many years but which might have been restored.
3. Special purpose districts included in the 1952 and 1957 Censuses of Governments where the name or listed functions of the district indicated that the district might be providing drainage services to agricultural lands.
4. Projects ascertained by a mail canvass of "irrigation enterprises" reporting 500 or more acres of drained lands in the 1950 Census of Irrigation. (See "Canvass of irrigation enterprises.")
5. Projects listed by the Soil Conservation Service as having been undertaken since 1950. (See "Soil Conservation Service canvass.")
6. Projects listed by the State of Missouri as having been organized since January 1, 1950. (The Soil Conservation Service could provide no information on drainage activities for 77 Missouri counties.)

For each of these listed projects, the name of the organization was entered on a 1960 Drainage Questionnaire. In most instances, the Bureau was also able to enter the name and address of one or more persons who could be contacted regarding that project. The person listed was generally an official of the organization, or some other person who would have knowledge of the project. These questionnaires were given to the enumerator, in the respective area, in advance of the enumeration.

The listing was considered to be reasonably complete. The 1950 Census provided a reliable listing of projects in existence as of that date. Officials of the Soil Conservation Service were of the opinion that the listing provided by that organization could be relied upon for coverage of additional projects since the 1950 Census. The Soil Conservation personnel had rendered technical assistance for many of these projects. Since the area served by each local office of the Soil Conservation Service generally consists of only one or two counties, the local officials should have had knowledge of any additional drainage operation in their area that would have sufficient size for inclusion in 1960.

Enumerators were instructed to be on the lookout, in the counties assigned, for additional drainage activities that might qualify for inclusion in the census.

For counties for which no projects were prelisted, and counties for which the enumeration was conducted by mail (see "Mail canvass"), the enumeration coverage depended wholly on the advance listing.

Canvass of "irrigation enterprises."—To determine which "irrigation enterprises" included in the 1950 Census of Drainage qualified for inclusion in the 1960 Census of Drainage, a special questionnaire (Form D2) was mailed to each enterprise for which 500 or more acres of land were reported as provided with artificial drainage. This questionnaire determined—

1. The individual or the organization responsible for the drainage.
2. Whether the need for drainage was solely because of irrigation, or was intended to improve naturally wetlands.
3. Whether 500 or more acres were drained by constructed works.

Although the 1950 Census of Drainage report carried data for "irrigation enterprises having their own drainage," the 1950 Census of Irrigation questionnaire did not determine whether the organization, group, or person responsible for the irrigation was also responsible for the drainage of the land.

The mailing list was compiled from the 1950 Census of Irrigation reports and from incomplete 1950 Census of Drainage questionnaires representing "irrigation enterprises" having their own drainage works. The 1950 Census of Drainage included 700 "irrigation enterprises" enumerated in the Irrigation Census, with 500 or more acres of irrigated land reported as provided with artificial drainage. The mailing list, compiled on a county basis, consisted of 960 listings to be accounted for. A total of 1,683 mailings was made, including followups for nonresponses, requests for further information, and requests to new respondents named as responsible for the drainage activities.

Satisfactory information was obtained for 87.9 percent of the listings. For most of the others the identification or address was not sufficient to find a satisfactory respondent. Of those for which satisfactory information was obtained, approximately two out of three did not qualify for inclusion in the 1960 Census. For over half (54.2 percent) of those qualifying for inclusion, the drainage was by separately organized drainage districts. Nearly all of these separately organized districts represented projects already listed. Only 99 projects qualifying for inclusion in the 1960 Census of Drainage, and not already listed from other sources, were found as a result of this canvass of "irrigation enterprises."

Soil Conservation Service canvass.—At the request of the Bureau, the officials of the Soil Conservation Service, Washington, D.C., asked each of the State conservationists to require that their work unit conservationists prepare a list of drainage operations for each county in their respective areas.

The work unit conservationists were instructed to include "only projects that provide drainage benefits for approximately 500 or more acres of land for agriculture" and to include only "jobs completed or started since January 1, 1950." They were requested to include "all projects—group, individual, and public—irrespective of whether they received technical assistance from the Soil Conservation Service."

The listing form provided for the inclusion of the name of the project; the approximate acres benefited; whether the project represented a single farm, a cooperative or mutual, or a legally organized project; and the name and address of the person or persons who might be contacted for information concerning the physical works and costs, and for maps or plats. Facsimiles of the listing form and of the covering memorandum are included in the appendix.

The projects for which lists were received totalled 4,602 for 610 counties. For each of the other counties, except for 77 counties in Missouri for which officials of the Soil Conservation Service were unable to provide information, either a listing form checked "No projects" or a memorandum stating there were no such projects, was received.

As a result of this prelisting of projects by the Soil Conservation Service, 2,935 projects were added to the Census lists. Of the 9,298 drainage projects (county count) in 1960, more than one-fourth (2,456) represented projects that had been added to the advance listing as a result of the Soil Conservation Service canvass. Of the 4,602 projects listed in the Soil Conservation Service canvass, 2,146 represented projects already listed by the Census, or projects that were found as not qualifying for inclusion.

In the field enumeration, further information obtained from the Soil Conservation Service local offices accounted for a large proportion of the 532 additional projects found by Census enumerators.

The drainage questionnaire.—For the 1960 Census, the same questionnaire form (D1) was used for all States. A facsimile of this questionnaire appears in the appendix.

In the arrangement and design of the questionnaire, consideration was given to the use of the form for self-enumeration, maximum use of 1950 information as a guide to the enumerator, simplification in the enumeration, and for the office processing of the data.

The name of the State and county were placed at the beginning of the questionnaire, since they assisted in the identification of a project. For intercounty projects, the portion in each county was enumerated separately and the inquiries, therefore, referred only to the portion within the specified county.

Section I provided for the identification and organization of the project. For all prelisted projects, the identification was entered in advance of the assignment for enumeration. Other inquiries related to the type of organization, the period in which the project or organization was started, and, if an intercounty project, the names of the other counties in which the project lands were situated.

Supplementary information, useful in the processing of the data, was sought through inquiries on whether there was active management of the project, and, if not, whether the project or organization had been dissolved, and whether the organization provided any major public service other than drainage.

Section II was designed to record the drainage activities during the decade, 1950–1959. A series of "No-Yes" questions described the various types of drainage activity and provided for skipping of the remainder of the section if there was no drainage activity. Data were requested for the cost of all drainage works and services, for the physical quantity of each major type of new works constructed, and for the cost of all new works. A descriptive entry was required for types of new works not listed. An inquiry on location of the outlet of the new drainage works helped to identify and locate the lands of the project.

Section III contained inquiries related to the area in the project, starting with the area in 1950. For projects included in the 1950 Census, the 1950 area was posted prior to the enumeration. This was followed by an inquiry on the area added since January 1, 1950, and on the area in 1960. This section also included inquiries to determine if any extensive portion of the land in the project area received no drainage benefits or was not being used for agriculture.

Section IV obtained information regarding areas overlapped by other projects. A distinction was made between land provided separate or supplemental service and land taken over by or from another project.

In Section V, provision was made for listing the name of the person, or persons, who supplied the information and the certification of the filled questionnaire by the enumerator and his supervisor.

Shaded squares on the questionnaire gave notice to the enumerator that additional information was required in respect to the project. Shaded squares opposite the area data indicated that

the location and approximate boundaries of these areas must be entered and identified on a map. When this additional work of enumeration was completed, an "X" was to be entered in the shaded square. A shaded square below the inquiry calling for a listing of the other counties involved in an intercounty project served as a reminder that the portion of each of these other counties must be enumerated also.

The questionnaire carried worksheets on the reverse side to facilitate the summarization of drainage activities for the 10-year period and for obtaining a breakdown by counties of data for intercounty projects. A township outline map, also on the back of the questionnaire, provided a place for sketching the location and approximate boundaries of the area served.

Preparation of a drainage map.—In addition to a filled questionnaire, the enumeration of a drainage project required the locating of each project on a map and the outlining of the approximate boundaries of the area served. For projects included in the 1950 Census, the enumerator was furnished a county map on which the location and approximate boundaries of these projects had been entered in the 1950 Census. Thus, the 1960 enumerator generally needed only to map projects not included in the 1950 Census and show changes in areas represented by projects already mapped. Of course, if he found the 1950 mapping to be in error he was expected to correct it. If desired, a separate map or tracing could be submitted, or a sketch drawn on the back of the questionnaire.

Mail canvass.—The listing of drainage projects by the Soil Conservation Service indicated that for 8 of the 48 conterminous States for which no drainage projects were found in the preceding drainage censuses, no drainage undertakings benefiting 500 or more acres of agricultural land had been undertaken during the 10-year period since 1950. Consequently, no further canvass was needed in these 8 States. These States were the New England States, Pennsylvania, and West Virginia.

In Alabama, Georgia, New Jersey, and New York, there were so few projects that a field canvass was not justified, from the standpoint of economy. A similar situation prevailed for Arizona, Colorado, Idaho, Montana, Nevada, New Mexico, Utah, and Wyoming where the need for much of the drainage had developed because of irrigation and the projects would not qualify for inclusion in the 1960 Census. The enumeration in these 12 States was conducted wholly by mail.

In the remaining States, a mail canvass was used for most of the counties for which there were less than 5 known drainage projects to be enumerated. Exceptions were made mostly for (1) "county-drain" States where several drains under the same management might be included in one report, (2) those instances where an enumerator would need to go into the county to complete the enumeration of intercounty projects, and (3) counties that involved a minimum of additional time and travel on the part of an enumerator assigned to an adjacent county. In several instances, enumerators were used to complete the enumeration initiated by mail canvass.

Of 1,336 counties requiring reports, 271 were completed by mail canvass and 1,065 by field enumeration. Of the 1,065 counties completed by field enumeration, the initial canvass in 34 counties was by mail, and in 61 other counties a part of the enumeration was by mail canvass. The 979 projects included in the mail canvass required 2,064 mailings, with the enumeration completed for 870 projects and with 109 projects assigned to enumerators for completion.

A facsimile of the letter used to accompany the mailed questionnaire is included in the appendix.

A mail followup was used to complete the enumeration in instances where the enumerator failed to obtain all the necessary information and the lacking information could not be estimated satisfactorily.

The local offices of the Soil Conservation Service provided assistance in numerous instances where there was difficulty in obtaining a satisfactory address or where the necessary information was incomplete. Projects for which assistance was asked were those for which the Soil Conservation Service had provided technical assistance, or legal organizations for which the information could be obtained readily from public records. Many of the legally organized projects, for which information was needed, had been inactive for years, or dissolved with no present management or organization. Dependence was placed, to a large extent, on the Soil Conservation Service for information for inactive or dissolved drainage projects for which no person who was ever associated with the organization could be found.

Field enumeration.—Enumerators for the Census of Drainage were selected from crew leaders and, in a few instances, from enumerators employed in the general 1950 Census of Agriculture. For the 1960 Census of Drainage, 156 enumerators and 21 supervisors were employed. The enumerator assignments averaged about 4½ weeks in duration.

The enumerators and supervisors were trained simultaneously at 10 training locations, selected to provide a minimum of combined travel. The training consisted of two days of technical instruction covering all phases of the enumeration with emphasis on problem situations that could be expected.

The unit of assignment was a county, with each enumerator generally assigned several counties. A drainage enumerator was paid \$1.95 for each authorized hour worked. He was allowed 7 cents per mile for the use of his automobile on official travel, and \$12.00 per diem for living expenses when overnight stops away from home were required.

There was no routine procedure for finding the information needed for the enumeration. The enumeration might require interviews with various individuals and public officials directly connected with specific drainage organizations, or who, because of their public office, might have knowledge of drainage undertakings in the area or records pertaining to such undertakings, or of the present condition and use of lands represented by projects mapped in the 1950 Census. The enumeration of a particular project often required interviews with several individuals and the examination of various public records and maps. Records pertaining to legally organized drainage projects were generally found among the county court records. Sometimes, records were in the hands of town or township officials, or with officials of the drainage organization. At times they were fragmentary. In a few cases records were nonexistent. The records were seldom in such form that the desired information could be taken off directly. When recorded information for an item was not available, the enumerator was instructed to obtain an estimate from a reliable respondent.

Of the 8,485 drainage projects for which data were tabulated in the 1960 Census, 2,348 were inactive throughout the 10-year period 1950-59. For many of these projects, the enumerator could find no person connected with the organization to furnish information regarding the project. In some instances, projects had been inactive over such a long period of time that few individuals could be found who knew that the project had ever existed. In other cases, the enumeration could be accomplished only through inquiry of local officials or affected landowners as to whether the area shown for the project in the 1950 enumeration included any extensive areas which were no longer receiving drainage benefits or were not being used for agriculture.

Completed counties.—As the enumeration of each county was completed, the enumerator turned over to his supervisor all enumerative materials for the county. The supervisor was required to review these materials, following an outline of checks provided for this purpose. After reviewing the materials for each county, the supervisor forwarded them to Washington for processing.

OFFICE PROCESSING

Editing.—Upon receipt in Washington, the drainage questionnaires and maps were examined for completeness and consistency in preparation for tabulation of the data and the reproduction of the maps. A check was made to see that all material for each county had been received including a filled questionnaire for each project. The list of projects that had been furnished prior to enumeration was reviewed for coverage. Omitted items of information were supplied, when available from records in the Bureau, or the figures could be estimated with reasonable accuracy. Inconsistencies between the areas stated in the reports and those mapped were reconciled, insofar as possible, on the basis of the information available. When the available information was insufficient to supply missing data, or to reconcile discrepancies, the needed additional information was obtained through correspondence.

For each intercounty project, the reports were checked to ascertain that complete and separate information was shown for each county part without duplication.

Questionnaires representing undertakings or organizations not qualifying for inclusion in the 1960 Census, as well as those representing duplications, were "rejected." In preparing the advance listing of drainage projects, the names of those for which there was insufficient information to determine whether they would meet the 1960 criteria were purposefully included. The enumerator did not make the decision whether a questionnaire should be filled for such projects. On the contrary, he was required to fill a questionnaire, thus providing documentary evidence as to why the project did not qualify. (For 1960 criteria, see "Definitions and Explanations.") Of 11,483 questionnaires returned in the enumeration, 2,072 were later rejected as not qualifying or because of duplication, and 113 were for projects which had been superseded by other projects during the 10-year period, 1950-1959.

All separate materials, including correspondence, sketch maps, etc.; the worksheets on the reverse of the questionnaire; and notations entered under "Remarks" or elsewhere on the enumerative materials, were examined for information that might be of assistance in the editing.

To check the mapping, the plat for each drainage project was identified on the county map. If a separate map, sketch, or tracing of a project was furnished, it was checked against the county map. If not already plotted, the project was entered on the county map; if in error, the plotting on the county map was corrected. The location, as shown on the map, was checked against any information as to location given on the questionnaire or other materials such as the name of the project, the location of the outlet, overlapping projects, land descriptions, and the like. The extent of the mapped area for each project was checked visually to see that it was reasonably consistent with the area reported on the questionnaire. Areas omitted from the questionnaire were obtained by planimeter measurement of the mapped areas. If the mapped and reported areas differed substantially, available information in the Bureau, including materials for the project from earlier censuses, were generally sufficient for making the necessary correction.

If extensive nondrained or nonagricultural areas were indicated on the questionnaire, but were not identified on the map, such areas could generally be identified by use of materials available in the Bureau such as aerial photographs and detailed maps showing current cultural and physical information. Likewise, if it was evident that an enumerator had omitted to indicate any extensive nonagricultural areas located within drainage projects, such as cities, airports, recreation areas, parks, military installations, wildlife refuges, State or National Forests, or commercial

woodlands, the nonagricultural portions were determined on the basis of these materials.

In checking the county map to the questionnaires, careful consideration was given to the delineation of overlapped areas. Often the extent of supersedence of a project by another, or the quantitative determination of areas served by two or more projects, could be determined only by careful plotting of the overlapping projects. In counties with extensive overlapping, the determination of the net area of land benefited by all projects generally, of necessity, had to be based almost entirely on the mapped areas. In fact, for most counties in the "county-drain" States, the net area serviced by county drains could be obtained only by plotting the separate drains, then measuring the overall mapped area. This had been the procedure for the "county-drain" States in 1950; therefore, only additions and deletions had to be considered in 1960.

After reconciling the questionnaires and the mapped areas, a determination of the area served in 1960, excluding any extensive areas not receiving drainage benefits from works of the project or not used for agriculture, was made for each project. The area served by a project included lands served jointly by it and other projects. Any portion of the project which had been taken over by some other project, however, was excluded. The 1960 area in individual drainage projects was used to tabulate the area of drainage projects by size of project, by type of organization, and by year of organization. That portion, if any, of the 1960 area which was provided separate or supplemental drainage service by one or more other drainage projects was also determined.

To obtain net acreage figures for land in drainage projects, counting only once the land in each project, a worksheet was prepared for each county. (A facsimile of this worksheet is included in the appendix.) Since the 1960 enumeration utilized 1950 Census information as a starting point for both the filling of a questionnaire and for performing the required map work, the worksheet also started with the 1950 information. The worksheet provided for posting (1) changes from the data reported in 1950, (2) areas of extensive nonbenefited or nonagricultural lands within drainage projects, and (3) areas served by two or more projects. For each of these categories, each tract of land was to be entered only once. In recording changes in areas since 1950, a distinction was made between lands for which drainage was established before 1950 and areas added in the 1950-1959 period.

To insure reasonable accuracy in the areas mapped, the net totals obtained from the worksheet were checked to planimeter measurements of the mapped areas in the county. A similar check against planimeter measurements had been made in 1950. If there were no substantial changes since 1950, no remeasurement was made for 1960.

Tabulation of data.—The county worksheets prepared in conjunction with the editing were used as a source for posting the total area in drainage projects, counting only once land served by two or more projects. This net area represented the land classified (1) on the basis of agricultural use, (2) by year when drainage was established, and (3) by number of projects providing drainage service. All other data were tabulated by adding the items as determined for each individual project.

Preparation of maps.—After reconciling the maps and questionnaires, a tracing was made of each county map outlining the overall areas in drainage projects, exclusive of any designated nondrained or nonagricultural portions and projects not qualifying under the 1960 criteria. These tracings of individual counties were then used for the preparation of the individual State and the United States drainage maps.

DEFINITIONS AND EXPLANATIONS

General.—Although the definitions and explanations which follow refer specifically to the 1960 Census of Drainage, many of them also apply to earlier censuses. Items for which the 1960 definitions and explanations are not adequate for earlier years are discussed further under "Comparability of data." Most of the definitions consist of a résumé of the questionnaire wording, supplemented by excerpts from instructions given to enumerators.

Drainage of agricultural lands, from the standpoint of adequacy, can represent varying degrees of improvement. Therefore, the term "drainage" is not subject to a precise definition. It can be defined only in general terms, subject to considerable variation in application by individual respondents and enumerators. In most instances, however, the resulting data have reasonable overall accuracy and usefulness. It should be kept in mind that in individual instances, had the information been obtained from other respondents or by other enumerators, the results could have been somewhat different. This situation helps to explain some of the differences in the results obtained in the different censuses. (See discussion of "Comparability of data.") There are many geographic areas for which the totals shown in 1960 for land with drains established before 1950 differ from the total areas in drainage projects as reported in the 1950 Census by amounts greater than can be explained by changes in definition.

The use in the 1960 enumeration of areas drained and mapped lands as obtained in the 1950 Census, undoubtedly, had some influence on the data tabulated for 1960 and for the mapped areas shown for 1960. A disadvantage of this procedure was the possible acceptance of the 1950 information in instances where more reliable data could have been obtained. The 1960 enumerator, however, was instructed to correct any errors found in the 1950 enumeration. It is likely, therefore, that the undetected errors were fewer than would have resulted in an enumeration that did not make use of information collected previously. On the whole, this practice probably did not influence the 1960 data appreciably.

Drainage.—The term "drainage" as used in this volume refers to agricultural drainage. Drainage is the removal, by artificial means, of excess water to improve the condition of the land for agricultural use. Drainage is accomplished by means of constructed works and may represent deepening, widening, or straightening of a natural channel; the construction of open ditches; the installation of underground tile or conduits; the construction of drainage wells; the installation of pumps for removal of water; or a combination of these methods, including associated works such as dikes or levees, floodgates, bridges and culverts, land leveling, and removal of snags, brush, or other obstructions which impede water flow.

Storm sewers, sanitary drains, highway ditches, and drains for industrial sites were not considered drainage works, for purposes of the census, unless they also accomplished improvement of agricultural lands.

The mere protection of land from flood waters or from surface runoff, with no drainage works provided to remove gravitational soil water from the protected lands, was not considered as drainage. Flood control works may involve (1) channel construction or improvement, (2) the inclusion of floodgates and outlet drains through the constructed levees so as not to impair natural drainage or drainage previously established, or (3) work on levees or ditches associated with drainage. As a consequence, it was sometimes difficult to distinguish between works serving for flood control only and those providing drainage benefits. Thus, some flood control projects of the U.S. Corps of Army Engineers, or portions thereof, were considered as providing drainage services and included in the 1960 Census. Examples include several channel improvements in the Delta and other

alluvial areas in the Mississippi River basin. These, generally, had been listed by the Soil Conservation Service as projects undertaken since 1950 that provided drainage benefits to 500 or more acres of agricultural land. Another example of borderline projects included were those for which construction or enlargement of levees was accomplished by the U.S. Corps of Army Engineers, but for which future maintenance was the responsibility of drainage districts.

Drainage works constructed solely for the removal of irrigation seepage water or for removal of alkali from the irrigated lands were excluded for the purposes of the 1960 Census. Similarly, when a drainage well or ditch served primarily as a source of irrigation water, with drainage no longer a problem, such projects were not to be included. Drainage established because of irrigation, generally, is so tied in with the irrigation works that it should be considered a part of the irrigation works and system rather than drainage. (See "Scope of the 1960 Census of Drainage.") Drainage operations benefiting naturally wetlands were to be included in the 1960 enumeration, even though such lands were also provided with irrigation. As with drainage coupled with flood control, there was evidence of lack of uniformity in determining when drainage of irrigated lands qualified for inclusion. In a few instances, conflicting information was obtained from different respondents for the same project.

Drainage project.—A drainage project is a plan undertaken as a unit to provide new construction, or to provide maintenance and operation of existing drainage works. A drainage project represents an undertaking under one control, supervision, or guidance.

A drainage project may be undertaken by a single landowner. Often, a farmowner cannot accomplish optimum drainage of his land, acting alone. Obtaining an outlet for his ditches may involve crossing some other owner's land. As a consequence, much of the drainage in the United States has been accomplished as community undertakings, participated in by landowners who have common drainage interests. The administrative structure set up to provide unified action for handling the drainage problem is referred to as its organization. All drainage activities under the direct supervision of one organization or management comprise one project. A drainage project may refer to an accomplished plan, i.e., the physical works have been provided and no further work or maintenance is anticipated on the part of the original organization.

For the 1960 Census, all drains constructed and/or operated by one organization were considered as one project even though they were noncontiguous and were constructed at various times. For example, all public drains under the administration of county officials, or under a special board set up to administer public drains in the county, are treated herein as one project. (See discussion of "County-drain" States.) Similarly, drainage sub-districts administered by the officials of the parent district were generally included with the parent district.

When identified, all drains, formerly but no longer under county jurisdiction and with no present organization responsible for their maintenance, were grouped together and included in one separate report. Such drainage "district" may have been discontinued through petition of the landowners or other legal action, or may no longer be considered as under county jurisdiction because of years of inactivity. The instructions to enumerators did not ask specifically for the identification of county drains that had been withdrawn from the county system. The enumeration instructions specified that for most counties in "county-drain" States, the net area had been satisfactorily determined and mapped in 1950 and, therefore, it would be necessary only to determine the area brought in by new drainage works since 1950. Thus, occasionally a 1960 report for county drains may have included some drains not identified as not being under county management in 1960.

For Delaware, which had been enumerated as a "county-drain" State in 1950, even though the predominant form of drainage organization was the drainage district (see discussion of "County-drain" and "Drainage-district" States), a similar procedure was followed even though each of the inactive drains, arbitrarily combined in the one report in 1960, had originally had its own separate organization. The extensive overlapping and super-sequence, which had occurred through years of drainage activity in the State and which had led to the use of a county questionnaire in 1950, was responsible for similar treatment of all inactive drains in 1960.

Only projects providing drainage benefits to 500 or more acres of agricultural land as of January 1, 1960, were included in the 1960 Census. (See definition of "Drainage.") Enumerators were instructed to consider as agricultural land all woodland and wasteland within farms. They were instructed *not* to consider as agricultural land any areas, used solely for the production of wood or timber, which were not a part of a farm.

A project need not provide complete drainage for the area served. Many projects, especially public drains, provided only the principal channel or outlet drain. The construction of the laterals and field drains, which were required to provide complete drainage of the land, may have been left to the individual farm owners. These supplemental drains, though providing drainage to the same area and necessary for the complete drainage system, were not included with the project for which they furnished supplemental works, but each was considered a separate project, and was separately enumerated if benefiting 500 or more acres.

For projects for which works had been taken over by another project (see "Superseded projects."), any portion not taken over was considered a separate project. If the entire project had been taken over, or if the portion not taken over was less than 500 acres, the project was excluded from the census.

The term "project," for describing the unit for enumeration in the 1960 Census, was usually used in preference to "enterprise" or "organization." "Project" more nearly indicates the physical works represented. "Enterprise" or "organization" refers more to the management and implies reference to all activities of the management which may include functions other than drainage. Furthermore, "organization" implies current active management of a group undertaking. The 1960 Census also included projects for which there was no longer an organization in addition to projects having a definite organization, and projects established by individual owners and cooperative groups without formal organization.

Intercounty projects.—For drainage projects extending into two or more counties, a separate report was obtained for the portion in each county. In presenting data by counties the portion in each county was treated as a separate project, but in presenting data by States the entire project was considered as a unit. Thus, the count of projects shown by counties in County Table 1 will not add to the count shown for the State. Differences in the "county count" and in the "State count" are shown in Summary Table 6. In the 1960 Census, 727 intercounty projects were reported with 1,564 county portions. Of these intercounty projects, 643 included land in two counties; 77, in three counties; 3, in four counties; 2, in five counties; 1, in seven counties; and 1, in eighteen counties.

For intercounty projects, the determination of whether the project qualified, from the standpoint of acreage, for inclusion in the 1960 Census was based on the entire project. For that reason, some county parts, treated as separate projects in the presentation of data by counties, represented fewer than 500 acres of drained agricultural lands.

If separate records of the drainage activities for each county part were not available for an intercounty project, the enumerator

was instructed to allocate on an area basis, or other equitable basis, the portion applicable to each county.

For intercounty drains represented in county-drain systems, the enumeration instructions required that the portion in each county be included in one report covering all county drains in the county. This procedure was to be followed irrespective of whether each county part was administered separately, or whether the entire project was administered wholly by one of the counties or jointly by the counties affected. (See "Drainage projects by size.")

Superseded project.—Many drainage organizations were established for a specific purpose such as to construct new drainage facilities, or to renovate or enlarge facilities established by an earlier organization. Upon accomplishment of its immediate objective, the organization often became inactive or was dissolved. When further work was needed, a new organization was established. The new project may have included the same land, more acreage, or less acreage. Over the years there has been extensive overlapping of drainage projects, only a portion of which may now have an active organization. (See "History of the Census of Drainage.")

Projects wholly superseded prior to 1950 were generally excluded from the 1960 enumeration. Those wholly superseded between 1950 and 1960 were always excluded from the 1960 count of drainage projects. If, however, a superseded project reported drainage operations during the decade, 1950–1959, such operations were included in the data presented for drainage operations, 1950–1959. (See Summary Table 6.) Occasionally, this resulted in a greater number of projects reporting operations during 1950–1959 than the total number of projects in 1960.

Control of a project may pass from one organization to another through court action. More often, change in control has occurred when an organization originally responsible for the construction and the maintenance merely ceased to actively operate the drainage works or to provide maintenance, and these functions were assumed by a new organization or management; or the old works were replaced or incorporated in the works of a new organization.

Whenever the area of a project with no active organization was overlapped by one with active organization, or by one more recently organized if neither project had active organization, the editing procedure required that the overlapped area be considered as having been taken over by the active or more recent organization. Projects of less than 500 acres and, therefore, not included in the Census, were never considered as having taken over works of another project.

Area in drainage projects.—The area in a drainage project is usually the area benefited by the drainage works. For a project undertaken by landowners, either individually or cooperatively, it is the area improved or benefited for agriculture as a result of the drainage facilities provided. For a legally organized drainage project, the area in the drainage project is the area established by the decree setting up the drainage district or project. If public drains are administered on a countywide basis, or on the basis of established political boundaries, it is the area directly benefited by the drainage works. In special districts organized primarily for purposes other than drainage, it is the entire area in the district even though only part may be benefited by the drainage works.

The area served by two or more projects was included in each project. The area taken over by one project from another was included in only one, usually the later project. (See discussion of "Superseded projects.")

Since the area of a legally organized project is that established by the court or other authority, it has definable boundaries. If special taxes were collected for the drainage, the area taxed can be considered as the area in the project. The 1930 Census made a distinction between total area and area assessed but the difference amounted to less than one-third of one percent. Changes in

area of a legally organized project may occur because of addition or deletion of land through action of the court or other authority responsible for the organization. Within the boundaries of a project there may be tracts that receive no drainage benefits or land not assessed. Such excluded areas may or may not have been shown in the mapping. This may account for some of the differences between reported and plotted areas.

Generally, the area in a public or legally organized drainage project represents the area benefited. In some instances, however, land liable as security for bonds or other obligations of a drainage organization may include some high or ridge lands with adequate natural drainage, or some wetlands not reclaimable. Also, the project area may include some benefited land not utilized for agriculture. The 1960 enumeration provided for the determination of any contiguous areas, totaling 500 or more acres, not used for agriculture or not benefited by the drainage works. (See "Area not used for agriculture or not drained.")

For organizations providing a major public service other than drainage, the area may include the entire district although the drainage service provided may benefit only a portion of it.

For projects owned by one landowner and projects representing drainage undertakings of two or more landowners cooperating without organization under statute law, the determination of the area was less precise and represented the judgment of the respondent as to the area improved or benefited. The area was often estimated by the Soil Conservation Service in the case of projects for which they provided technical assistance.

The presentation of the 1960 data includes several items relating to area in drainage projects for which a special explanation is considered necessary.

1. *Total area in drainage projects*, as presented in line 5 of County Table 1, line 4 of State Table 1, and Summary Tables 1 and 5, and *Land in drainage projects* as presented in column 1 of Summary Table 7 represents the total area of land, within the specified geographic unit, that was in drainage projects included in the 1960 Census. Land in two or more drainage projects was counted only once. This item includes some land not used for agriculture and some land not drained. (See "Area not used for agriculture or not drained.")

2. *Net area drained and used for agriculture*, as presented in line 8 of County Table 1, line 6 of State Table 1, and Summary Tables 1 and 5, and *Land in drainage projects* as presented in column 1 of Summary Tables 8 and 13, excluded extensive contiguous areas of land not used for agriculture and land not drained. (See "Area not used for agriculture or not drained.") Land in two or more projects is counted only once.

3. *Totals of areas of individual projects*, as presented in line 10 of Summary Tables 1 and 5, column 15 of Summary Table 8, and the area data for drainage projects classified by size of project, by type of organization, and by year started or organized (County Table 1, State Tables 1 through 4, and Summary Tables 1 through 5, and 11, 12, and 13) represent the sum of the areas in individual projects with no deduction for land included in two or more projects. Extensive contiguous areas of land not used for agriculture and land not drained were excluded from this item. (See "Area not used for agriculture or not drained.") The difference between this item and the preceding item is due to land served by two or more projects. (See "Area served by two or more projects.")

Area not used for agriculture or not drained.—The area in drainage projects frequently included land that was not being used for agriculture or land that was not receiving drainage benefits from works installed or operated by the project. (See definition of "Area in drainage projects.") Two questions (16 and 17) on the 1960 Drainage Questionnaire identified contiguous tracts of 500 or more acres of such land within the area reported for the project. The area not benefited might represent land for which the drainage works had completely deteriorated or land for which no drains had been provided. For a project which provided both drainage and flood protection, the questionnaires identified, for exclusion, any land protected from overflow with no drains provided. Land with drainage required solely because of irrigation was, likewise, identified and excluded.

Land within drainage project boundaries not used for agriculture might be wasteland, cutover land, residential or industrial areas, airports, military installations, public parks, wildlife refuges, State or National Forests, commercial woodland, or other lands in nonagricultural use.

Inquiries which served to identify areas of nonagricultural or nonbenefited lands within drainage projects could not be utilized advantageously to locate all such lands. For that reason, the effort was restricted to the determination of contiguous areas of 500 or more acres. In the application of this requirement, small scattered tracts of benefited agricultural lands, in extensive areas predominantly nondrained or nonbenefited, were sometimes disregarded in the enumeration or in the office processing. Enumerators, also, occasionally failed to report areas, such as towns, airports, public parks, wastelands, etc., which obviously were nonagricultural or nonbenefited. This omission may have been due to misunderstanding as to the nature of the information available for the project from the 1950 Census. Information for lands not used for agriculture or not benefited was not obtained in 1950. The 1960 instructions had stressed the need for obtaining changes in operations since 1950. With no change in the situation, the enumerator may not have been aware of the need for this information. Whenever an omission was indicated, the nonagricultural or nonbenefited areas were determined through correspondence or from examination of maps and aerial photographs available in the Bureau.

The item identified in the tables as "Net area drained and used for agriculture" was obtained by subtracting, from the total area in drainage projects, only the included tracts of 500 or more contiguous acres reported as not used for agriculture or not drained. Thus, the area shown as drained and used for agriculture may include many acres of interspersed nonagricultural or nondrained lands in tracts of less than 500 contiguous acres. This explains why the "Net area drained and used for agriculture" reported for a county sometimes exceeds the total land area in farms.

In the tables showing the total areas of individual projects classified by size, type of organization, and year started or organized, any contiguous tracts of 500 or more acres identified as being nonagricultural or nondrained were excluded. If the total area served by an individual project, exclusive of such nonagricultural or nonbenefited lands, was less than 500 acres the project was "rejected" and excluded from the 1960 totals. For intercounty projects the determination was based on the entire area, and not on the portion in each county.

The exclusion of nonbenefited portions, in the presentation of area data for projects classified by size, by type of organization, and by year started or organized, resulted in the data for one Florida county showing one project with no acres. A major project reported for Florida extended into 18 counties several of which were reported as receiving no drainage benefits as of January 1, 1960, from works constructed or operated by the project. Much of the work done prior to the census date represented planning and engineering. Completed construction and costs for operation of drainage works were limited, as of January 1, 1960, to 9 of the 18 counties.

Land by year drainage was established.—The area drained and used for agriculture was classified, on the basis of when the drainage was established, into two groups, as follows: (1) *Drainage established before 1950* and (2) *area added 1950-1959*. If a project took over the works of another, or provided supplemental service to an area included in an earlier project, the land was usually classified on the basis of the drainage established by the earlier project. Thus, land reported as in drainage projects in the 1950 Census was, with few exceptions, classed as provided with drainage prior to 1950. Generally, for drainage projects reported as organized or started prior to 1950, all the land reported as in the project on January 1, 1950 (question 13 on the questionnaire) was classed as having drainage established before

1950. Land reported as added since January 1, 1950 (question 14 on the questionnaire) was considered as land with drainage established since 1950, provided new works were reported and the added area did not represent an overlapping of area included in the 1950 area of some other project. Additions to a project, which had been made because the lands were already receiving drainage benefits, were not considered as "area added 1950-1959."

For a project started in 1950 or later, the entire area, except for any portion overlapping an older project, was classed as having drainage established in the 1950-1959 period. Usually, the determination of drainage established for new areas was supported by reports of newly constructed drainage works. In a few instances, the drainage works reported for the newly drained lands consisted entirely of cleanout or restoration of old works. If the land had not been included in the 1950 Census, or in another project reported in 1960, the area was classed as having had its drainage established in the 1950-1959 period, on the assumption that the old works requiring renovation had ceased to provide the area with drainage benefits.

The assessed or taxed area of a project sometimes included land for which the drainage had not been established. In the case of an organization providing a public service, other than drainage, only a portion of the area of the project may have been receiving drainage benefits. For this reason, there were some instances where the 1950 area of a project included land for which drainage was actually first established since 1950.

Land classified on the basis of when drainage was established should not be confused with land reported for drainage projects classified on the basis of when the project or organization was started. (See Summary Table 13 and discussion of "Drainage projects by year started or organized.")

Area served by two or more projects.—The area served by two or more projects was obtained (1) through the questionnaire inquiries on overlapped area (Section IV of the questionnaire) and (2) by checking the mapped boundaries of each project. Careful determination of the overlapped areas was essential to the determination of the net land benefited by drainage projects and, for that reason, received special consideration in the editing process. A distinction was made between areas taken over and areas provided separate or supplemental service.

Usually, separate or supplemental service was the result of one project providing the outlet drainage facilities and another the laterals or branch drains. Or, each may have provided certain specified drainage works or services. Sometimes three or more projects provided service to the same area. As a general rule, the editing instructions considered that overlapped areas, as determined from the mapping of the lands in each project, represented dual service except when it was determined that one project had taken over the lands of another.

In making the determination of the area served by two or more projects, consideration was given to possible errors in mapping. If the plotted areas of two projects indicated overlapping, but the net area mapped for the two projects was equal to the sum of the areas reported for each without any deduction for overlap, the projects were considered as not having any area in common. A similar determination was made for adjoining projects when one did not provide an outlet for the other. The apparent overlap may have been indicated solely because the source materials for mapping did not reflect all revisions in the boundaries of each of the two projects.

In presenting the portion of the net land area in drainage projects represented by tracts served by two or more projects (line 11 of County Table 1, line 9 of State Table 1, and Summary Tables 1 and 5, and columns 7-10 of Summary Table 8), each tract served by two or more projects was counted only once. In presenting the portion of the totals of areas of individual projects provided with service by one or more other projects (column 3

of State Tables 2, 3, and 4; also column 3 of Summary Tables 2, 3, and 4) each tract receiving service from two or more projects was included for each of the projects. The differences in the totals shown for these two items were the result of the multiple counting, in the latter, of land served by two or more projects. Lands served by two projects were included in each of the two projects; lands served by three projects, in each of the three; etc. The total net area drained and used for agriculture, likewise, does not contain any duplication of land served by two or more projects but the totals of the areas of individual projects include multiple counting of the land included in more than one project.

Approximate land area.—The approximate land area comprises land in farms, cities, forests, swamps, deserts, etc., and the area occupied by streams, sloughs, estuaries, and canals less than one-eighth of a mile in width, and lakes, reservoirs, and ponds of less than 40 acres. Changes since 1940 reflect political changes in boundaries or actual changes in land area caused by changes in number and size of reservoirs, lakes, etc. The figures for 1940 represent a complete redetermination of the area and may differ from those shown for earlier years.

Land in farms.—The acreage designated under "Land in farms" was obtained in the census of agriculture. The "land in farms" figures, shown in the tables presenting data for the 1960 Census of Drainage, are from the 1959 Census of Agriculture taken in the fall of that year. "Land in farms" consists primarily of lands used for agriculture, but also includes considerable areas not actually under cultivation nor used for pasture or grazing. All woodlands and wastelands owned or rented by farm operators were included unless being held for nonagricultural purposes or unless the acreage was unusually large.

Drainage operations, 1950-1959.—For each project included in the 1960 Census, information was obtained for drainage activities for the 10-year period, 1950 to 1959, inclusive. The 10-year period could be on either a calendar- or fiscal-year basis. In either case a report was intended to include a full 10-year period. For convenience, a worksheet was provided for entering data for each of the 10 years.

Reports on drainage works and services during this 10-year period were required for all projects which, at any time during the period, provided drainage benefits to 500 or more acres which were being used for agriculture in 1960. The data for drainage works and services, therefore, include totals for some projects which had been taken over by another project prior to 1960.

When a project provided a major public service in addition to drainage, the enumerator was instructed to include with the drainage works ditches, pumps, or other works, or portions thereof, that accomplished drainage of agricultural lands even though these served primarily as storm sewers, sanitary drains, highway ditches, or for the drainage of residential or industrial sites, or for irrigation, or for some other special purpose. If no separate records were kept, costs and works were to be allocated to provide an equitable share to agricultural drainage. If the allocation was not made in the field enumeration, the allocation was made during office processing, unless the amounts involved were exceptionally large. In the latter case, the information was obtained through correspondence.

Cost of all drainage works and services.—The inquiry called for the total cost of all drainage works and services provided for the 10-year period, 1950-1959. The total was to include costs for all drainage activities of the organization, including construction or installation of new drainage works, enlargement or complete replacement of prior works, cleanout or restoration of old works, maintenance, operation, or repair of drainage works, and administration. The questionnaire required the inclusion of all costs relating to the works and services provided, regardless of when paid or to be paid. Specific mention was made of costs of organization, engineering, rights-of-way, legal services, and administration. Payments on principal or interest on bonds or notes were

not to be included. The enumeration instructions asked for the inclusion of all costs for physical works, materials, equipment, etc., regardless of the source of the funds used. Costs paid by a county, a State, or the United States Government, or by another drainage organization for use of facilities provided by the reporting organization were to be included.

New drainage works constructed, enlarged, or installed.—New drainage works referred to the digging or placement of drains where none existed before; the straightening, enlarging, widening, deepening, or relocation of natural channels or of prior ditches; or the installation or replacement of drainage pumps. The original construction of levees or dikes for the protection of lands provided with drainage, or their extension or enlargement, was, likewise, considered as new drainage construction. Maintenance, cleanout, or restoration of prior works, with no enlargement or change in the original works, were not considered new drainage construction.

The enumerators experienced some difficulty in determining when work on old drains was to be considered as new works.

For each of the three principal types of drainage works—*open ditches, tile or covered drains, and levees or dikes*—information was obtained as to the length of new construction; and for *pumps*, the number of newly installed pumps. New works represented by other structures such as drainage wells, sumps, flood or tide gates, bridges, culverts, wellhouses, and land leveling were to be reported under "other." No information was obtained for these "other" new drainage works except their type. The data presented include only a count of the projects reporting "other" new works.

Costs of new works.—This part of the overall cost for drainage was obtained in a separate question by asking how much of the total cost of works and services represented the cost of new drainage works reported.

Cost of maintenance, operation, repair, and administration.—This was obtained by subtracting the costs of new works from the total costs reported for all drainage works and services.

Drainage projects by size.—Drainage projects were classified on the basis of the total acres of agricultural land receiving drainage benefits from works of the project. In the classification by size of project, the portion in two or more projects was included in each project. For intercounty projects, the determination of size was based on the total acres in the project, not on each county portion.

For a project comprising all drains under the jurisdiction of a given county, the area represented the combined total of the individual areas of drained land in the county that were administered by county officials, including portions of intercounty drains administered by other counties. Although projects with fewer than 500 total acres were excluded from the 1960 Census, the crediting of each portion of a county drain to the county in which located resulted in reports for county drains for two counties in 1960 showing less than 500 acres of drained agricultural lands. These two counties were Benton, Iowa, and Jerauld, South Dakota. In 1950, there were three such "county-drain" reports, the two counties mentioned above and Fulton, Kentucky.

For Delaware, all drainage projects for which there was no active organization at the time of the census were grouped into a single report for each county. This arbitrary procedure affected the data presented by size of project.

Drainage projects by type of organization.—Drainage projects were classed by type of organization into three groups:

1. Drains owned by one landowner.—A landowner may be an individual, a partnership, an estate, a private corporation, or an institution.
2. Cooperative or mutual drains represent undertakings by two or more landowners cooperating without special organization under State drainage laws for the construction or operation of drainage works benefiting their lands. Many of the

cooperative or group drainage projects were undertaken under the guidance of the Soil Conservation Service.

3. Legally organized public drains represent community or public drainage undertakings accomplished through some form of governmental organization. These could be an organization administered by public officials of a county, a township, a State, an agency of the Federal government, or by specially elected or appointed officials or boards. A large variety of general or special State laws provide for equitable cooperation among landowners who will be benefited by a drainage undertaking. (A synopsis of drainage laws in the various States was included in the 1940 Census of Drainage report.)

Although legally organized drainage projects represent a large variety of types, most fall into two major groups. (1) County drains are governed by county officials or by a special official or board elected or appointed to administer public drainage undertakings in the county. In the 1960 Census all county drains in a county were treated as though they represented one project. (See "Drainage project," "Intercounty projects," and "County-drain" States.) (2) Drainage districts are governed by a special official or board elected or appointed for that particular project. (See "Drainage-district" States.)

Drainage projects by year started or organized.—The classification of projects by the year in which they were started or organized provides an indication of relative drainage activity in different periods of time. The drainage activity may not necessarily have represented construction of new works or the establishment of drainage on lands not previously benefited. Frequently the purpose of a new drainage project or organization was the restoration or improvement of existing drainage facilities, their extension, or the construction of supplemental works.

The classification of a project by year the project was started or organized should not be confused with the classification of the land by the year in which drainage was established. (See "Land by year drainage was established.") A project started or organized prior to 1950 may include some lands for which drainage was first established since 1950 while a project started or organized since 1950 may include lands on which drainage had been established by a prior project. State Table 4 and Summary Table 4 provide data on land by the year drainage was established for projects started or organized before 1950, and those started or organized in the period 1950-1959, respectively.

COMPARABILITY OF DATA

Continuity maintained despite changes.—The scope and content of the Census of Drainage has varied considerably since the first Census of Drainage in 1920. Notwithstanding the variation, a reasonable degree of continuity has been maintained in the data collected and tabulated. In 1920, 1930, and 1940, emphasis was placed on the status of drainage facilities as of the census date while in 1950 and 1960, emphasis was placed on the drainage activities for the most recent 10-year period.

Changes in enumerative procedures.—The Census of Drainage has always been primarily a census of community or public drainage undertakings and of the larger private drainage undertakings. Variations in the methods employed and the scope of the census have had the most effect on the number of projects covered but have not greatly affected the comparability of other items. The major changes have been (1) the elimination, in the enumeration, of numerous projects which had been taken over by a later project; (2) the exclusion of projects of under 500 acres which, because of their small size and tendency to represent overlapped projects, had contributed very little to the overall drainage area; (3) the consolidation into a single report of undertakings under common management; (4) the elimination of drainage undertakings representing an integral part of irrigation with the drainage required solely because of the irrigation of the land; and (5) the identification of extensive contiguous areas, within drainage projects, that were not used for agriculture or not drained. It will be noted that the changes listed under (1) and (3) had no effect on

the net area or drainage facilities covered in the census; the change under (2) reduced greatly the number of reports without any substantial reduction in the area or drainage facilities covered; the effect of the change stated under (4) was restricted to irrigated areas for which there was no need for drainage prior to irrigation; and the effect of the change listed under (5) was to provide more accurate data for lands which had been improved for agriculture by drainage.

Elimination of superseded projects.—In the first three censuses an attempt was made to obtain reports for all public drainage organizations, regardless of size, which had contributed to the investment and to the physical works represented in public drainage undertakings in existence at the time of the census. Reports were required for some organizations which had been wholly superseded by later projects. Quite commonly, a drainage organization had been established to provide a particular service and was dissolved or discontinued upon completion of the specified undertaking. When additional work was required, a new organization was created. In some counties the same land had been covered several times. For example, in 1940 in Ohio the total of areas of individual projects was more than 3 times larger than the total land area represented by all drainage projects in the State. (See Summary Table 8.) In the 1940 Census of Drainage Report, a distinction was made between "number of reports" and "number of enterprises," the latter intended to represent projects that had not been superseded by later organizations. For all drainage States reported in that census, the number of reports totaled 79,220, of which nearly half represented projects that had been superseded by later projects. Only 42,363 of these reports, or 53.5 percent, represented projects that had not been superseded.

The change in 1950, requiring the reporting of drainage activities for the most recent 10-year period, in lieu of an inventory of all physical works and the total capital investment represented by these works, made possible the elimination of reports which had contributed to the drainage works and to capital investment, but which no longer provided any drainage services. The effect of this elimination, in respect to number of reports, is shown by a comparison of number of projects, 1940, and number of reports, 1940. (See Summary Table 6.)

Elimination of projects under 500 acres.—A large proportion of the reports obtained in the first three censuses of drainage represented very small public drainage undertakings whose combined contributions to the overall totals were negligible. In 1940, more than half of the reports were under 500 acres but these small reports contributed only 5 percent to the net land area represented by all drainage projects. The decision to exclude public drainage projects of under 500 acres in the 1950 Census enumeration did not appreciably reduce the census coverage of drainage facilities but did eliminate the necessity of obtaining large numbers of reports that would contribute little significance to the statistics collected. Privately owned drainage projects of under 500 acres have been excluded from all five Censuses of Drainage.

A comparison of the total number of reports in 1940 and the number in 1940 excluding those representing fewer than 500 acres, is presented in Summary Table 6. Summary Table 11 provides a comparison of the totals of the acres in individual projects for all reports obtained in 1940 and for those under 500 acres. In making a comparison of the total areas, it should be kept in mind that nearly one-half of the totals of the acres of individual projects of under 500 acres represented land overlapped in other projects.

In 1950, although projects of less than 500 acres were eliminated from the enumeration, the data include 8,286 reports and 604,757 acres representing reports of under 500 acres of drained irrigated land reported in the Census of Irrigation.

One report for all drainage undertakings under same management.—More than four-fifths of all reports obtained in each of the first three censuses of drainage were from three States—Ohio,

Indiana, and Michigan. In each of these States, most of the drains were administered by county officials.

The decision in the 1950 Census to use one questionnaire to cover all drainage activities in each county in these and 7 other States greatly simplified the enumeration. (See "History of the Census of Drainage" and "County-drain" States.) It was no longer necessary to plot the land for every successive drainage activity. If records in the county provided totals for all drainage activities, it was not necessary to search out the data for each individual undertaking.

In these three States the number of reports obtained in the enumeration was reduced from 64,881 in 1940 to 196 in 1950. (See Summary Table 6.) A disadvantage of the procedure followed in 1950 was its failure to provide separate information for projects that were not under county management. These projects had been arbitrarily included in 1950 in the one report obtained for each county.

In 1960, the procedure was modified to obtain separate information for each project having its own separate organization but required, in all States, one report for all drainage undertakings under the same management. (For further discussion of the effects on the statistics of this enumeration procedure see "County-drain" States.)

Elimination of irrigation drainage.—In taking the earlier censuses of drainage, considerable difficulty had been experienced in obtaining satisfactory data for irrigation projects having their own drainage. In 1950, the reporting on the drainage questionnaire was so incomplete that it was decided to use the more limited data secured in the Census of Irrigation for that year. The drainage data available from the irrigation census were limited to the area of irrigated lands provided with artificial drainage and the number of projects reporting drainage. Some downward adjustments were made in these irrigation census data to eliminate drainage activities of separately organized drainage districts. Adjustments were limited to Florida, Louisiana, and Texas. The replies received in the 1960 mail canvass for irrigation enterprises indicated that there had been additional duplication which had not been eliminated. The exact location of the drained land reported in the 1950 Census of Irrigation had not been required. Consequently, no satisfactory check for duplications in the drained areas reported in the 1950 Census of Irrigation and those reported in the Census of Drainage was possible.

The decision, in 1960, to eliminate coverage of drainage required solely because of irrigation resulted in the exclusion, in that year, of most of the 9,076 reports and much of the 4,119,059 acres of drained lands reported in the 1950 Census of Irrigation and included in the 1950 drained land totals. Of these totals from the Irrigation Census, 8,286 reports, with 604,757 acres, were eliminated because of the 500-acre limitation. In addition to drainage performed by irrigation enterprises, the 1950 Census of Drainage included 267 drainage enterprises, organized separately, for which the drainage was principally for the purpose of removal of alkali or seepage from irrigated land. These 267 enterprises accounted for 1,270,729 drained acres in the 1950 total. The 1960 reports for most of these projects again indicated that the drainage was required solely because of irrigation and, therefore, were excluded from the tabulations.

Identification of nonagricultural and nondrained lands.—In the 1950 Census of Drainage Report, the total land in drainage projects for 40 small geographic areas—22 parishes in Louisiana; 4 counties each in Florida and Michigan; 3 counties each in Minnesota, Ohio, and Texas; and 1 in Arkansas—exceeded the total land in farms by 20 percent or more. The excess for these 40 small geographic areas amounted to 10,150,825 acres, or 9.9 percent of the total land in drainage projects reported for all drainage States.

In 1960, the determination of extensive nonagricultural and nondrained tracts within all drainage projects resulted in the identification of 9,573,393 acres, or 9.4 percent of the land in drainage projects, as not being used for agriculture or not benefited by the drainage works provided. The inquiry, which allowed for the determination of such land, permitted the identification and exclusion of former drainage district lands which now represent special use areas, such as State forests, wildlife refuges, recreation areas, etc. Similarly, it aided in identifying lands which had been withdrawn from an existing district for one or more of these special uses. Also excluded from the total area were large areas of swamp or waste lands and other nonbenefited areas in so-called countywide drainage districts. In 1960 the enumeration procedure called for the inclusion of only the portion taxed, if special levies were made against landowners directly benefited, or the portion actually improved if the entire county was taxed. In 1950, the entire area of the county was included.

Differences in reporting overlapped areas.—The consolidation into a single report of two or more undertakings under common management did not allow for the reporting of areas provided with supplemental services.

The land area in drainage projects, counting only once land in two or more projects, was accomplished in 1920 and 1930 by determining for each project the area not represented in an earlier project, whereas, in 1940 and 1950, this was accomplished by determining the area not in a later project. In 1960, the determination was made through the use of a worksheet which provided for counting only once each piece of land represented in the plotting of the projects on the county map.

In Summary Table 8, which presents data on areas served by two or more projects, the 1960 area is that which was provided drainage services by two or more projects. The 1950 totals for overlapped areas were obtained by subtracting from the sum of the acres of individual projects the net land area represented by all projects. The 1940, 1930, and 1920 totals for overlapped areas were, likewise, obtained by difference and were further affected by the inclusion of projects which had been superseded by later projects. (See "Elimination of superseded projects.")

In Summary Tables 12 and 13, land in two or more projects was included in 1960 for each project, thus representing multiple counting of such lands. For 1950 and 1940, only land not taken over by a later project was included. For 1930 and 1920, only land not represented in an earlier project was counted. In Summary Table 13, the area presented by year the project was started or organized represents, for 1950 and 1940, the area by year of beginning of the most recent drainage undertaking, while the 1930 and 1920 data represent more nearly the year drainage was first established for the area.

"County-drain" States.—The grouping of States, similarly affected by changes in procedure, permits a better comparison of historical data. The group of States most affected by changes in procedure were the 10 States designated in the 1950 report as "county-drain" States.

The simplification of the 1950 questionnaire and the use of only one report in 1950 for each county, for these 10 States, resulted in the omission of inquiries on pump drainage, year and type of organization, and overlapping of drainage projects. In presenting drainage data in 1950, for these States, no count was shown for number of projects and no classification was shown for type of project, year of organization, or size of project. In this report, the count shown for 1950 is the number of counties for which a report was included. In the 1960 presentation, each of the 1950 county reports was considered as representing a legally organized drainage project and was classified by size on the basis of the total acres reported for the county. The possible inclusion in the county report of undertakings of individual landowners or of cooperating groups of landowners without formal organization under State laws was disregarded.

In 1960, the determination of the year started or organized for a combined report represented the year the management was established, or the year the first drain was started if the management preceded the drainage activities. The determination of the land for which drainage had been established since 1950, however, provided a measure of new undertakings for organizations established before 1950.

Except for Delaware, the predominant type of drainage organization in the so-called "county-drain" States was the county drain. For most counties in these States, the 1960 procedure provided data very comparable to those in 1950. The change in procedure affected only counties having drainage organizations not classed as county drains. For Delaware, since the predominant type of drainage organization was the drainage district, under the 1960 procedure each district required a separate report. The combined report used in 1950 was retained in 1960, for Delaware, only for districts for which there was no organization in 1960. (See "Drainage projects by size.")

"Drainage-district" States.—This designation was used for all drainage States other than "county-drain" States. For these States, the predominant type was the drainage district and the 1960 and 1950 procedures more nearly paralleled those used in 1940. The most pronounced difference was in the reporting of irrigation drainage.

"Irrigation" States.—This designation is used for that group of "drainage-district" States for which the 1950 data included drained lands reported in the Irrigation Census. The effect on the data, of the exclusion in 1960 of drainage undertakings which had been required solely because of irrigation, was limited to these States and a few counties in the "county-drain" States.

"Other" States refer to those "drainage-district" States not affected by the method of handling irrigation drainage. These States were least affected by changes in procedures.

SUMMARY OF DRAINAGE ACTIVITIES

The total area in drainage projects serving agricultural lands, as determined in the 1960 Census, was 101,870,257 acres. This area, benefited by drainage projects of 500 or more acres, is less than the 102,688,331 acres reported in 1950 but actually represents an increase for comparable categories of land. The 1960 data did not include approximately 3 million acres of drained irrigated lands and about 6 million acres of swamp and waste lands counted in 1950 but excluded under the 1960 procedures.

Of the 1960 total area of 101,870,257 acres within drainage project boundaries, 9,573,393 acres represented extensive areas either not being used for agriculture or not benefited by drainage works established by the projects. The remaining 92,296,864 acres, after the exclusion of extensive nonagricultural and non-drained lands, represented the area predominantly agricultural which had been benefited by installed drainage works. However, this total contained an unknown amount of interspersed non-agricultural land. Drainage was reported, as newly established since 1950, on 5,336,593 acres. This newly established drainage area represented both improvement of lands already in agriculture and the reclamation of new lands for agriculture. One-third of these newly drained lands represented additions to drainage projects in existence in 1950 and two-thirds, lands for which drainage works were established by projects started since 1950.

Projects initiated since 1950 also included new works or services for 2,637,792 acres on which drainage had been previously established. A large proportion of these newly established projects were undertakings of groups of farmowners cooperating without legal organization or undertakings of individual farmowners. The acreage of benefited lands of individual landowners and cooperative groups was approximately 2½ times that reported in 1950.

In 1960, projects started prior to 1950 accounted for 93.6 percent of the total agricultural lands reported as provided with drainage.

Three-fifths of these older projects reported drainage activity in the period 1950 to 1959, with one-fifth reporting construction of new drainage works. Approximately one-fifth of those providing new works since 1950 had extended their facilities to lands not previously drained. Two-fifths of the projects started before 1950 reported no maintenance or other drainage services provided since 1950. Maintenance work on public drains by individual landowners would not have been included in the reports for public drains.

The total cost of drainage works and services for the 10-year period amounted to \$416,875,863, of which \$185,688,673 was for new works. New facilities represented, principally, construction of 33,543 miles of open ditches; 2,192 miles of tile or covered drains; 2,017 miles of levees; and the installation of 957 pumps. Costs for maintenance and operation of established drains, exclusive of any maintenance for public drains by individual landowners, amounted to \$2.50 per acre drained, or 25 cents per acre per year.

The greatest portion of the agricultural land in drainage projects is located in the North Central States and lower Mississippi Valley. The States with the largest drained acreage in 1960 were Indiana with 11,053,446 acres, Minnesota with 10,560,808 acres, Michigan with 9,877,049 acres, Ohio with 8,809,415 acres, and Louisiana with 7,110,624 acres. These five States accounted for more than one-half of the total drained agricultural land. These

States were followed in order by Iowa with 6,871,339 acres, Texas with 5,691,130 acres, Illinois with 5,563,426 acres, and Florida with 4,855,327 acres.

Three States accounted for more than one-half of the land on which drainage had been newly established since January 1, 1950. These three States were Minnesota with 1,244,237 acres on which drainage had been newly established, Louisiana with 965,687 acres, and Florida with 548,556 acres. Other leading States were Texas with 318,198 acres, North Carolina with 254,482 acres, Mississippi with 249,368 acres, California with 244,352 acres, and Arkansas with 233,263 acres. These eight States accounted for more than three-fourths of the total land on which drainage had been established since January 1, 1950.

Florida led all States in the amount spent for agricultural drainage for the 10-year period, 1950 to 1959, with a total cost of \$91,627,636 for all drainage works and services. Of this total, \$68,012,516 represented an outlay for new construction. Florida accounted for more than one-fifth of the total reported by all States for drainage works and services and more than one-third of the total cost of new works. Louisiana reported a total expenditure of \$45,796,344, and Minnesota, \$41,809,993, with more than one-half of each total representing new works. Michigan followed with a total cost of \$37,186,074, of which \$32,402,708 was for maintenance, the largest amount of maintenance reported for any State.

SUMMARY

(1)

DRAINAGE OF AGRICULTURAL LANDS

CONTERMINOUS UNITED STATES—LOCATION OF LAND IN DRAINAGE PROJECTS, 1960
(Projects benefiting 500 or more acres of agricultural land)

See inserted folded map

Summary Table 1.—DRAINAGE PROJECTS—NUMBER, AREA, COST, AND WORKS: CENSUSES OF 1920 TO 1960

Item	1960 Census (39 States)	1950 Census (40 States)	1940 Census (38 States)	1930 Census (35 States)	1920 Census (34 States)
AREA					
Approximate land area.....acres...	1,744,413,440	1,819,123,840	1,785,136,000	1,743,699,840	1,717,932,160
Land in farms.....acres...	1,082,713,706	1,123,690,602	1,004,930,884	905,805,407	844,924,236
Drainage projects.....number...	8,461	114,533	139,597	167,927	156,949
Total area in drainage projects.....acres served...	101,870,257	102,688,331	86,967,039	84,408,093	65,495,038
Area not used for agriculture or not drained.....acres served...	9,373,393	NA	NA	NA	NA
Net area drained and used for agriculture.....acres served...	92,496,864	NA	270,068,469	268,640,109	NA
Drainage established 10 years or more before Census date.....acres served...	86,960,271	NA	NA	NA	NA
Drainage established within 10 years of Census date.....acres served...	5,536,586	NA	NA	NA	NA
Area served by two or more projects.....acres served...	6,276,437	3,962,516	45,861,412	44,086,985	30,134,253
Total of areas of individual projects ¹.....acres served...	99,098,430	106,650,847	132,828,451	128,495,078	95,629,291
PROJECTS BY SIZE					
Under 500 acres.....number of projects...	...	8,289	41,690	31,056	22,205
.....acres served...	...	606,031	9,065,810	7,348,844	6,374,640
500 to 999 acres.....number of projects...	2,847	1,593	15,855	15,765	10,712
.....acres served...	1,950,621	1,103,139	11,234,727	11,130,096	9,091,516
1,000 to 4,999 acres.....number of projects...	3,669	2,757	17,213	16,767	11,797
.....acres served...	7,764,699	6,201,930	35,069,097	34,074,009	29,522,536
1,000 to 1,999 acres.....number of projects...	2,061	1,412	10,467	...	...
.....acres served...	2,883,301	1,983,206	14,556,019	...	...
2,000 to 4,999 acres.....number of projects...	1,588	1,345	6,746	...	...
.....acres served...	4,883,398	4,218,724	20,511,078	...	...
5,000 to 9,999 acres.....number of projects...	728	679	2,357	2,291	1,472
.....acres served...	5,083,845	4,754,671	16,387,515	15,865,002	13,357,936
10,000 to 49,999 acres.....number of projects...	819	819	1,884	1,810	1,107
.....acres served...	16,758,378	17,098,296	36,721,074	35,075,951	23,826,149
10,000 to 19,999 acres.....number of projects...	499	484	1,228	...	...
.....acres served...	6,963,107	6,781,099	16,964,180	...	...
20,000 to 49,999 acres.....number of projects...	620	334	656	...	...
.....acres served...	9,795,271	10,317,197	19,756,894	...	...
50,000 to 99,999 acres.....number of projects...	152	145	159	168	115
.....acres served...	10,630,513	10,254,850	10,760,472	11,403,982	8,605,536
100,000 or more acres.....number of projects...	246	252	66	31	31
.....acres served...	56,912,374	66,631,930	13,589,756	13,597,194	4,850,978
PROJECTS BY TYPE OF ORGANIZATION					
Drains owned by one landowner.....number of projects...	1,817	4,551	NA	NA	NA
.....acres served ² ...	4,162,244	41,382,330	698,506	684,880	664,018
Cooperative or mutual drains.....number of projects...	2,469	893	(7)	(7)	(7)
.....acres served ³ ...	3,977,204	41,409,494	(7)	(7)	(7)
Legally organized public drains.....number of projects...	4,175	4,013	NA	NA	NA
.....acres served ⁴ ...	91,358,682	495,776,948	681,705,415	680,894,347	664,352,059
PROJECTS BY YEAR STARTED					
Started 10 years or more before Census date.....number of projects...	5,958	83,749	NA	NA	NA
.....acres served ⁵ ...	92,839,578	832,193,879	81,000,792	73,691,488	36,545,774
Started within 10 years of Census date.....number of projects...	2,523	81,263	NA	NA	NA
.....acres served ⁶ ...	6,258,852	14,351,738	5,966,242	10,716,605	28,719,717
DRAINAGE OPERATIONS, 10-YEAR PERIOD PRECEDING CENSUS DATE					
Cost of drainage works and services.....projects reporting...	6,137	43,810	NA	NA	NA
.....dollars...	426,875,869	179,033,770	NA	NA	NA
New drainage works constructed, enlarged, or installed.....projects reporting...	3,606	181,128	NA	NA	NA
.....cost, dollars...	185,688,673	1023,872,422	NA	NA	NA
Open ditches.....projects reporting...	3,333	1,200	NA	NA	NA
.....length, miles...	33,543.5	9,303	NA	NA	NA
Tile or covered drains.....projects reporting...	427	146	NA	NA	NA
.....length, miles...	2,192.1	581	NA	NA	NA
Levees or dikes.....projects reporting...	322	152	NA	NA	NA
.....length, miles...	2,016.9	1,020	NA	NA	NA
Pumps.....projects reporting...	357	NA	NA	NA	NA
.....number of pumps...	957	NA	NA	NA	NA
Other (see text).....projects reporting...	264	NA	NA	NA	NA
Cost of maintenance, operation, repair, and administration.....projects reporting...	4,042	NA	NA	NA	NA
.....dollars...	231,187,192	155,161,348	NA	NA	NA
STATUS ON CENSUS DATE					
Capital investment.....dollars...	NA	NA	691,724,519	680,250,255	372,273,567
Physical works:					
Open ditches.....length, miles...	NA	NA	146,152.3	138,673.0	107,468.2
Tile drains.....length, miles...	NA	NA	55,734.0	55,031.7	47,211.7
Levees and dikes.....length, miles...	NA	NA	6,792.9	6,539.5	3,509.8
Pumping units.....projects reporting...	NA	369	353	292	NA
.....number of units...	NA	1,284	1,284	1,028	453

NA Not available.

¹For 1920, the table includes irrigation enterprises reporting drained land in the Census of Irrigation; for the 10 "county-drain" States, all drainage projects in each county were enumerated as a unit. In 1940 and earlier, each drain was counted a separate project. For 1930 and 1920, the count represents the number of reports and includes projects wholly superseded by later projects and, for intercounty projects, the separate reports for each county. See Summary Table 6 and text. See Summary Table 11 for explanation of counts by size of project.

²Not fully comparable. See Summary Table 7 and text.

³Total of acres of individual projects with no deduction for land included in more than one project; for 1960, extensive contiguous areas not used for agriculture or not drained (line 5) were excluded. See Summary Table 7 and text.

⁴For 1920, figures exclude 9,076 projects and 4,119,059 acres in "irrigation enterprises"; for the 10 "county-drain" States, all drainage projects in each county (other than "irrigation enterprises" from Census of Irrigation) were included with county drains. See text.

⁵For 1960, sum of areas of individual projects (see footnote 3); for 1920 to 1950, land in two or more projects included only once; for 1950 and 1940, land in two or more projects was included only for the project last organized; for 1930 and 1920, for the project first organized.

⁶For 1940, figures exclude 4,240,578 acres in "irrigation enterprises" and 36,000 acres not identified by type; for 1930, figures exclude 2,644,674 acres in "irrigation enterprises" and 14,132 acres not identified by type; for 1920, figures exclude 442,599 acres in "irrigation enterprises" and 38,342 acres not identified by type. See Summary Table 12 and text.

⁷In 1940, 1930, and 1920, the classification by type of organization included drainage undertakings by two or more operators cooperating without organization under statute law with "individual ownership enterprises." One cooperative project of 10,000 acres in Georgia was identified in the 1920 report. See Summary Table 12 and text.

⁸For 30 States only, exclusive of 9,064 projects and 4,109,273 acres in "irrigation enterprises"; year began and pumping units not reported for the 10 "county-drain" States. See Summary Tables 10 and 13 and text.

⁹Revised to equal sum of figures shown in 1920 by States; 1920 figures exclude 229,547 acres for which date of organization was not reported. See Summary Table 13.

¹⁰Cost of new works for lands not previously drained.

DRAINAGE OF AGRICULTURAL LANDS

Summary Table 2.—DRAINAGE PROJECTS,

[Date for

	Size of project (Based on area of agricultural land in project)	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
			Total ¹ (acres)	Served by two or more projects ¹ (acres)	Before 1950		Area added 1950-1959	
					Projects reporting	Acres ¹	Projects reporting	Acres ¹
1	All projects.....	8,461	99,098,430	13,078,003	7,190	93,616,607	1,791	5,481,823
2	500 to 999 acres.....	2,847	1,950,621	723,167	2,140	1,449,315	823	501,306
3	1,000 to 1,999 acres.....	2,081	2,881,301	823,237	1,744	2,386,675	440	494,626
4	2,000 to 4,999 acres.....	1,588	4,883,398	1,010,151	1,431	4,308,074	238	575,324
5	5,000 to 9,999 acres.....	728	5,081,845	785,772	682	4,589,121	91	492,724
6	10,000 to 19,999 acres.....	499	6,963,107	1,171,097	484	6,608,196	45	354,911
7	20,000 to 49,999 acres.....	320	9,795,271	1,719,709	314	9,344,850	23	490,421
8	50,000 to 99,999 acres.....	152	10,630,513	1,612,601	150	9,796,395	33	834,118
9	100,000 or more acres.....	246	56,912,374	5,232,249	245	55,133,981	98	1,778,393

¹Areas served by two or more projects included in each project.

Summary Table 3.—DRAINAGE PROJECTS, BY

[Date for

	Type of organization	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
			Total ¹ (acres)	Served by two or more projects ¹ (acres)	Before 1950		Area added 1950-1959	
					Projects reporting	Acres ¹	Projects reporting	Acres ¹
1	All projects.....	8,461	99,098,430	13,078,003	7,190	93,616,607	1,791	5,481,823
2	Drains owned by one landowner.....	1,817	4,162,544	1,794,051	1,360	3,286,656	569	875,888
3	Cooperative or mutual drains.....	2,469	3,977,204	1,244,573	1,768	2,338,334	895	1,238,870
4	Legally organized public drains.....	4,175	91,358,682	10,039,379	4,062	87,991,617	327	3,367,065

¹Area served by two or more projects included in each project.

Summary Table 4.—DRAINAGE PROJECTS, BY

[Date for

	Year of organization	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
			Total ¹ (acres)	Served by two or more projects ¹ (acres)	Before 1950		Area added 1950-1959	
					Projects reporting	Acres ¹	Projects reporting	Acres ¹
1	All projects.....	8,461	99,098,430	13,078,003	7,190	93,616,607	1,791	5,481,823
2	1950-1959.....	2,523	6,258,852	2,149,374	1,232	2,637,792	1,521	3,621,060
3	Prior to 1950.....	5,958	92,839,578	10,928,629	5,958	90,978,815	270	1,860,763

¹Areas served by two or more projects included in each project.

BY SIZE: CENSUS OF 1960

39 States]

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959								
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	
6,137	416,875,865	3,606	185,688,673	3,333	33,543.5	427	2,192.1	322	2,016.9	357	957	264
2,044	13,104,350	1,573	8,180,769	1,493	5,255.6	145	426.6	90	250.5	90	169	72
1,421	16,647,121	887	8,496,226	824	5,263.0	92	198.8	75	258.8	86	162	68
1,123	32,430,117	519	14,452,400	466	4,378.7	48	132.8	82	484.7	89	229	55
527	28,697,412	197	8,724,035	171	2,022.3	17	30.2	30	174.3	35	77	22
384	34,240,516	129	11,002,856	106	2,267.9	11	15.3	25	239.0	30	200	21
256	31,434,415	78	8,399,809	70	2,831.9	14	23.3	10	113.0	9	33	6
139	41,950,143	64	16,303,136	58	3,904.0	15	199.2	6	76.7	11	55	9
243	218,371,791	159	110,129,442	145	7,620.1	85	1,165.9	4	419.9	7	32	11

TYPE OF ORGANIZATION: CENSUS OF 1960

39 States]

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959								
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	
6,137	416,875,865	3,606	185,688,673	3,333	33,543.5	427	2,192.1	322	2,016.9	357	957	264
1,635	39,803,405	1,366	21,315,822	1,332	17,517.1	65	355.9	200	1,102.7	212	667	63
1,736	11,694,288	1,426	8,872,991	1,355	3,552.4	159	296.4	32	77.2	24	34	88
2,766	365,378,172	814	155,499,860	646	12,474.0	203	1,539.8	90	837.0	121	256	113

YEAR OF ORGANIZATION: CENSUS OF 1960

39 States]

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959								
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	
6,137	416,875,865	3,606	185,688,673	3,333	33,543.5	427	2,192.1	322	2,016.9	357	957	264
2,503	53,884,348	2,348	44,197,206	2,273	15,466.3	207	538.1	147	654.5	108	266	133
3,634	362,991,517	1,258	141,491,467	1,060	18,077.2	220	1,654.0	175	1,362.4	249	691	131

DRAINAGE OF AGRICULTURAL LANDS

Summary Table 5.—DRAINAGE PROJECTS, AREA, SIZE,

	Item and Census year	Total (39 States)	Alabama	Arkansas	California	Colorado	Delaware	Florida	Georgia
AREA									
1	Approximate land area.....acres...	1,744,413,440	32,678,400	33,599,360	100,206,720	66,485,760	1,265,920	34,721,280	37,295,360
2	Land in farms.....acres...	1,052,713,726	16,542,730	16,458,515	36,887,948	38,787,312	762,526	15,236,521	19,657,615
3	Drainage projects.....number...	8,461	11	598	336	16	60	516	52
4	Total area in drainage projects ¹.....acres served...	101,870,257	69,901	4,870,106	1,934,825	55,496	356,702	9,222,517	94,728
5	Area not used for agriculture or not drained.....acres served...	9,573,393	4,000	189,140	23,574	...	15,780	4,367,190	1,500
6	Net area drained and used for agriculture.....acres served...	92,296,864	65,901	4,680,966	1,911,251	55,496	340,922	4,855,327	93,228
7	Drainage established before 1950.....acres served...	86,960,271	64,851	4,447,703	1,666,899	55,496	340,066	4,306,371	67,982
8	Area added, 1950-1959.....acres served...	5,336,593	1,050	233,263	244,352	...	856	548,956	25,246
9	Area served by two or more projects.....acres served...	6,276,437	...	917,881	106,696	...	600	1,353,192	7,621
10	Total of areas of individual projects.....acres served ² ...	99,098,430	65,901	5,765,338	2,019,547	55,496	341,522	6,348,491	101,854
PROJECTS, 1960, BY SIZE									
11	500 to 999 acres.....number of projects...	2,847	6	230	104	4	18	148	21
12	1,000 to 1,999 acres.....acres served...	1,950,621	3,749	150,233	71,894	2,892	11,961	101,911	14,172
13	2,000 to 2,999 acres.....number of projects...	2,081	...	109	76	4	24	109	18
14	3,000 to 3,999 acres.....acres served...	2,881,301	...	144,769	101,939	5,930	31,948	147,268	26,533
15	4,000 to 4,999 acres.....number of projects...	1,588	3	76	75	4	14	107	10
16	5,000 to 5,999 acres.....acres served...	4,883,398	11,271	238,843	230,410	11,464	51,448	340,809	28,613
17	6,000 to 6,999 acres.....number of projects...	728	...	60	56	4	1	66	1
18	7,000 to 7,999 acres.....acres served...	5,081,845	...	439,295	381,682	35,210	6,346	473,168	9,846
19	10,000 to 19,999 acres.....number of projects...	499	...	54	27	...	1	38	2
20	20,000 to 29,999 acres.....acres served...	6,963,107	...	776,548	385,170	...	11,700	531,642	22,690
21	30,000 to 39,999 acres.....number of projects...	320	2	45	9	...	...	31	...
22	40,000 to 49,999 acres.....acres served...	9,795,271	50,881	1,388,425	234,240	...	...	851,198	...
23	50,000 to 99,999 acres.....number of projects...	152	...	12	8	...	...	33	...
24	100,000 to 199,999 acres.....acres served...	10,630,513	...	778,208	477,966	...	...	909,054	...
25	200,000 to 299,999 acres.....number of projects...	126	...	12	1	...	...	4	...
26	300,000 or more acres.....acres served...	56,912,374	...	1,849,017	136,846	...	228,119	2,993,041	...
PROJECTS, 1960, BY TYPE OF ORGANIZATION									
27	Drains owned by one landowner.....number of projects...	1,817	1	167	157	3	...	388	11
28	2,000 to 2,999 acres.....acres served...	4,162,544	500	236,104	311,903	2,638	...	1,836,408	12,847
29	Cooperative or mutual drains.....number of projects...	2,469	6	202	45	3	1	36	17
30	3,000 to 3,999 acres.....acres served...	3,577,204	33,745	276,463	124,511	5,610	780	274,431	24,325
31	Legally organized public drains.....number of projects...	4,175	4	229	154	10	59	92	24
32	40,000 to 49,999 acres.....acres served...	91,358,682	31,656	5,252,771	1,583,133	47,248	340,742	4,237,652	64,682
PROJECTS, 1960, BY YEAR STARTED									
33	1950-1959.....number of projects...	2,503	1	338	87	...	10	197	14
34	6,000 to 6,999 acres.....acres served...	6,258,852	500	773,954	267,081	...	22,822	828,437	34,533
35	Prior to 1950.....number of projects...	5,958	10	260	269	16	50	319	38
36	70,000 to 79,999 acres.....acres served...	92,839,578	65,401	4,991,384	1,752,466	55,496	318,700	5,520,054	67,321
DRAINAGE OPERATIONS, 1950-1959³									
37	Cost of drainage works and services.....projects reporting...	6,137	6	471	344	15	48	450	23
38	416,875,865.....dollars...	416,875,865	31,061	20,488,226	29,065,237	178,196	476,944	91,627,636	118,012
39	New drainage works constructed, enlarged, or installed.....projects reporting...	3,606	4	352	206	3	33	338	21
40	189,688,673.....dollars...	189,688,673	25,812	9,044,351	4,525,825	3,750	399,511	68,012,516	109,012
41	Open ditches.....projects reporting...	3,333	4	167	121	3	33	327	21
42	length, miles...	33,543.5	15.3	1,796.0	812.9	0.3	215.7	10,554.6	52.4
43	Tile or covered drains.....projects reporting...	427	...	...	21	...	...	9	1
44	length, miles...	2,192.1	...	...	46.0	0.4	...	23.2	7.8
45	Levees or dikes.....projects reporting...	322	...	9	50	...	...	119	...
46	length, miles...	2,016.9	...	27.8	227.4	...	...	1,198.1	...
47	Pumps.....projects reporting...	357	...	3	74	1	...	139	...
48	number of pumps...	...	...	4	162	1	...	548	...
49	Other (see text).....projects reporting...	264	...	...	42	1	...	28	...
50	Cost of maintenance, operation, repair, and administration.....projects reporting...	4,042	5	169	289	14	25	312	3
51	231,187,192.....dollars...	231,187,192	5,249	11,443,875	24,539,432	174,446	77,433	23,615,120	9,000

¹Land served by two or more projects counted only once.²Total of acres of individual projects with no deduction for land included in more than one project; extensive contiguous areas not used for agriculture or not drained (line 5) were excluded.³Includes projects taken over by another project prior to 1960. See text.

SUMMARY

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AND TYPE OF ORGANIZATION, 1960; AND DRAINAGE OPERATIONS, 1950 TO 1959; BY STATES

Idaho	Illinois	Indiana	Iowa	Kansas	Kentucky	Louisiana	Maryland	Michigan	Minnesota	Mississippi	Missouri	
52,933,120 15,232,401 33	35,795,200 30,327,261 1,496	23,158,400 18,613,046 292	35,860,480 33,830,950 249	52,510,720 50,152,870 103	25,512,320 17,030,675 28	28,867,840 10,347,328 915	6,319,360 3,456,769 138	36,492,160 14,782,507 86	51,205,760 30,796,097 307	30,222,720 18,630,263 590	44,248,320 33,155,226 425	1 2 3
130,982	5,616,121	11,120,936	6,884,409	402,330	945,515	9,089,516	353,837	10,208,735	11,689,201	3,123,227	3,123,416	4
20,000	52,695	67,490	13,070	29,220	56,716	1,978,892	3,390	331,686	1,127,393	82,620	26,100	5
110,982	5,563,426	11,053,446	6,871,339	373,110	888,799	7,110,624	350,447	9,877,049	10,560,808	3,040,607	3,097,316	6
110,118 864	5,428,733 134,693	10,980,064 73,382	6,748,104 123,235	309,135 63,975	882,753 6,046	6,144,937 965,687	341,631 8,816	9,753,462 123,587	9,316,571 1,244,237	2,791,239 249,368	3,059,174 38,142	7 8
...	293,808	210,322	190,819	4,873	2,000	1,255,460	44,541	23,279	475,138	294,417	517,507	9
110,982	5,883,070	11,267,848	7,063,570	377,983	890,799	8,437,799	396,786	9,900,328	11,045,146	3,354,500	3,670,629	10
11 8,075 9 12,214	313 228,468 438 633,272	120 80,373 59 77,882	61 40,868 51 72,690	26 20,036 23 34,597	7 4,566 6 8,683	373 261,601 271 373,294	45 31,330 36 52,090	28 18,013 5 7,085	110 76,273 76 105,305	222 149,764 122 161,464	99 65,228 85 118,155	11 12 13 14
9 30,656 2 11,988	435 1,380,782 182 1,240,267	28 82,548 12 85,208	36 115,231 19 140,346	24 70,445 22 155,065	1 2,000 2 14,400	126 361,443 28 203,467	41 127,238 13 89,562	1 4,200 3 22,096	34 95,505 5 36,520	116 346,590 53 361,648	108 331,649 50 345,052	15 16 17 18
...	...	8	30	8	2	43	2	2	7	41	43	19
...	1,317,391	101,632	429,493	97,870	29,191	600,013	33,541	31,169	105,929	582,586	603,643	20
...	27	8	16	...	3	...	...	...	18	25	29	21
48,049	822,295	273,059	532,875	...	53,371	1,111,624	...	184,213	608,036	710,266	847,008	22
...	2	6	13	...	5	16	1	5	22	12	8	23
...	151,034	479,819	932,852	...	335,569	1,046,309	63,045	403,485	1,597,870	898,322	527,875	24
...	1	51	23	...	3	22	...	37	35	1	3	25
...	109,261	10,087,327	4,799,215	...	443,019	4,500,048	...	9,230,067	8,419,708	143,900	831,995	26
5 4,074	39 78,673	18 22,765	10 11,428	5 3,660	1 2,000	526 810,903	...	11 7,454	25 34,930	121 155,650	55 42,154	27 28
3 4,362	154 228,762	188 237,047	89 125,657	14 23,427	10 8,660	233 309,784	9 14,183	21 22,724	192 248,293	230 292,531	56 57,739	29 30
25 102,546	1,303 5,575,635	86 11,008,036	150 6,926,485	84 350,896	17 880,139	154 7,337,112	129 382,603	54 9,870,150	90 10,761,923	239 2,906,319	314 3,570,736	31 32
1 704	101 227,957	154 197,004	64 75,368	27 68,772	8 6,646	307 1,521,116	22 36,354	22 16,365	160 370,380	197 435,318	111 167,964	33 34
32 110,278	1,395 5,655,113	138 11,070,844	185 6,988,202	76 309,211	20 884,153	608 6,936,683	116 360,432	64 9,883,963	147 10,674,766	393 2,919,182	314 3,502,665	35 36
29 2,011,573	1,027 28,691,965	254 13,598,832	202 21,032,299	96 1,665,416	17 897,753	753 45,796,344	29 409,398	79 37,186,074	248 41,809,993	374 9,557,061	302 12,138,381	37 38
16 200,332	228 11,114,587	158 2,528,431	110 5,726,914	45 850,795	10 97,291	576 24,432,591	23 393,798	67 4,783,366	207 23,831,372	223 3,855,591	117 936,412	39 40
38.6	143 374.5	135 487.0	78 271.1	44 168.0	10 28.4	562 8,202.7	23 137.2	64 974.6	205 2,333.2	222 566.6	113 296.7	41 42
1 2.5	83 124.5	57 160.0	60 282.8	1 0.1	1 20.0	1 0.1	...	29 208.5	47 935.6	...	36 8.5	43 44
5 8.6	24 115.2	2 0.3	6 6.5	13 33.4	...	34 215.2	...	2 4.7	2 0.4	3 3.3	13 42.6	45 46
11 18 1	30 45 50	1 1 36	2 2 19	...	...	45 91 16	...	7 15 4	2 2 4	1 3 4	3 5 8	47 48 49
29 1,811,241	936 17,577,378	162 11,070,401	138 15,305,385	76 814,621	10 800,462	490 21,363,753	8 15,600	53 32,402,708	97 17,978,621	206 5,701,470	224 11,201,969	50 51

DRAINAGE OF AGRICULTURAL LANDS

Summary Table 5.—DRAINAGE PROJECTS, AREA, SIZE, AND TYPE OF ORGANIZATION,

Item and Census year	Montana	Nebraska	Nevada	New Jersey	New Mexico	New York	North Carolina	North Dakota
AREA								
1 Approximate land area.....acres...	93,271,040	49,031,680	70,264,320	4,813,440	77,766,400	30,680,960	31,402,880	44,452,480
2 Land in farms.....acres...	64,081,391	47,755,708	10,942,936	1,379,002	46,293,207	13,489,516	15,887,724	41,465,717
3 Drainage projects.....number...	20	103	2	9	5	19	564	161
4 Total area in drainage projects ¹.....acres served...	62,222	744,207	41,521	11,756	31,593	49,616	1,418,892	1,642,543
5 Area not used for agriculture or not drained.....acres served...	2,110	4,987	...	800	...	...	98,389	1,360
6 Net area drained and used for agriculture.....acres served...	60,112	739,220	41,521	10,956	31,593	49,616	1,320,503	1,641,183
7 Drainage established before 1950.....acres served...	49,656	697,914	41,521	6,106	30,293	45,165	1,066,021	1,517,023
8 Area added, 1950-1959.....acres served...	10,456	41,306	...	4,850	1,300	4,451	254,482	124,160
9 Area served by two or more projects.....acres served...	...	1,784	...	...	...	...	95,071	87,840
10 Total of areas of individual projects.....acres served ² ...	60,112	741,004	41,521	10,956	31,593	49,616	1,417,032	1,732,183
PROJECTS, 1960, BY SIZE								
11 500 to 999 acres.....number of projects...	11	14	...	5	1	14	304	78
12 acres served...	9,051	9,684	...	3,400	600	8,871	202,778	52,640
13 1,000 to 1,999 acres.....number of projects...	4	18	...	2	1	2	124	45
14 acres served...	4,921	27,781	...	2,600	1,000	2,351	179,749	62,610
15 2,000 to 4,999 acres.....number of projects...	3	28	1	2	...	...	72	19
16 acres served...	10,670	89,673	2,500	4,956	...	...	188,866	56,660
17 5,000 to 9,999 acres.....number of projects...	...	26	...	...	...	1	28	9
18 acres served...	...	187,135	...	...	15,018	8,500	190,996	63,648
19 10,000 to 19,999 acres.....number of projects...	1	12	...	...	1	2	12	1
20 acres served...	12,580	163,857	...	...	14,975	29,894	161,601	18,176
21 20,000 to 49,999 acres.....number of projects...	1	3	1	...	...	...	11	2
22 acres served...	22,890	95,508	39,021	...	...	...	303,597	87,228
23 50,000 to 99,999 acres.....number of projects...	...	2	...	...	...	...	3	1
24 acres served...	...	167,366	...	...	...	...	189,445	59,309
25 100,000 or more acres.....number of projects...	...	...	...	...	...	...	...	6
26 acres served...	...	...	...	...	...	...	...	1,331,912
PROJECTS, 1960, BY TYPE OF ORGANIZATION								
27 Drains owned by one landowner.....number of projects...	1	...	...	...	1	2	39	...
28 acres served...	640	...	...	...	600	1,300	65,426	...
29 Cooperative or mutual drains.....number of projects...	6	4	...	9	...	13	403	144
30 acres served...	4,685	6,940	...	10,956	...	20,071	485,339	200,630
31 Legally organized public drains.....number of projects...	13	99	2	...	4	4	122	17
32 acres served...	54,787	734,064	41,521	...	30,993	28,245	866,267	1,331,553
PROJECTS, 1960, BY YEAR STARTED								
33 1950-1959.....number of projects...	9	4	...	5	1	6	186	27
34 acres served...	8,847	33,300	...	4,650	600	4,451	322,432	55,550
35 Prior to 1950.....number of projects...	11	99	2	4	4	13	378	134
36 acres served...	51,265	707,704	41,521	6,306	30,993	45,165	1,094,600	1,676,633
DRAINAGE OPERATIONS, 1950-1959³								
37 Cost of drainage works and services.....projects reporting...	18	40	3	8	5	13	310	41
38 dollars...	721,491	1,388,581	219,902	40,617	127,433	202,013	2,959,290	1,672,790
39 New drainage works constructed, enlarged, or installed.....projects reporting...	11	12	1	7	2	7	219	37
40 dollars...	211,129	417,911	84,215	39,967	70,840	86,009	2,187,155	649,652
41 Open ditches.....projects reporting...	10	10	1	7	2	7	217	35
42 length, miles...	43.0	60.6	36.5	13.6	6.3	25.5	959.0	168.5
43 Tile or covered drains.....projects reporting...	1	...	...	3	...	2	1	...
44 length, miles...	2.2	...	...	5.0	...	19.8	4.1	...
45 Levees or dikes.....projects reporting...	...	...	...	...	...	1	3	1
46 length, miles...	...	...	...	...	...	5.5	20.7	3.5
47 Pumps.....projects reporting...	...	...	1	...	...	1	3	...
48 number of pumps...	...	4	...	...	...	2	7	...
49 Other (see text).....projects reporting...	1	4	...	...	...	1	5	2
50 Cost of maintenance, operation, repair, and administration.....projects reporting...	10	36	3	1	3	9	130	13
51 dollars...	510,362	970,670	135,687	650	56,593	116,004	772,135	1,023,138

¹Land served by two or more projects counted only once.²Total of acres of individual projects with no deduction for land included in more than one project; extensive contiguous areas not used for agriculture or not drained (line 5) were excluded.³Includes projects taken over by another project prior to 1960. See text.

SUMMARY

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1960; AND DRAINAGE OPERATIONS, 1950 TO 1959; BY STATES—Continued

Ohio	Oklahoma	Oregon	South Carolina	South Dakota	Tennessee	Texas	Utah	Virginia	Washington	Wisconsin	Wyoming	
26,222,080 18,506,796 142	44,087,630 35,800,688 31	61,598,720 21,236,298 110	19,374,080 9,169,492 123	48,881,920 44,850,666 41	26,727,680 16,081,285 179	168,217,600 143,217,559 243	52,696,960 12,688,518 9	25,496,320 13,125,802 66	42,693,760 18,716,972 122	35,011,200 21,156,223 235	62,343,040 36,199,666 6	1 2 3
8,904,907 95,492	133,796 ...	274,754 4,300	339,966 1,900	658,580 ...	730,855 139,976	6,500,043 808,913	68,910 2,000	98,478 5,700	254,482 13,300	587,803 3,710	23,833 ...	4 5
8,809,415 8,747,745 61,670	133,796 115,212 18,584	270,454 190,869 79,585	338,066 229,279 108,787	658,580 647,251 11,329	590,879 492,825 98,054	5,691,130 5,372,932 318,198	66,910 66,390 520	92,778 227,696 51,971	241,182 536,444 13,486	584,093 23,833 47,649	23,833 ...	6 7 8
64,162 8,873,857	...	41,927 314,221	15,850 353,916	2,010 660,590	6,527 597,406	2,844 5,938,974	...	9,198 101,976	1,300 242,482	4,770 588,863	...	9 10
46 31,479 28 38,053	15 9,296 6 9,592	46 32,402 28 37,328	69 44,128 10 35,548	4 2,820 6 7,979	55 38,260 60 83,789	78 51,490 54 71,193	...	43 29,435 11 14,792	50 34,970 35 50,138	68 48,510 88 124,894	...	11 12 13 14
13 42,520 1 5,536	3 10,924 2 12,176	21 65,573 7 44,865	10 30,685 7 47,249	7 21,786 9 64,609	41 131,220 11 75,379	32 99,489 13 96,652	1 2,800 ...	7 21,948 ...	25 73,502 72,372	56 165,204 103,960	1 3,347 17,031	15 16 17
8 118,498 6 238,003	3 42,656 2 49,152	6 78,213 2 55,840	4 51,682 4 144,624	4 101,096 3 152,654	8 108,569 3 69,189	20 277,059 24 777,625	1 12,000 1 44,000	1 10,248 ...	1 11,500 ...	6 90,295 ...	...	18 19 20 21
7 532,618 39 7,867,150	...	...	...	3 197,579 1 ...	1 91,000 ...	11 735,784 11 3,829,682	...	...	...	1 56,000 ...	...	22 23 24 25 26
3 2,424	11 9,942	6 25,690	59 88,203	...	8 8,433	130 369,079	...	5 7,286	2 1,375	7 8,055	...	27 28
76 88,555	10 9,656	56 87,807	52 97,212	8 11,059	37 39,293	43 74,170	1 1,300	59 82,289	20 20,374	17 23,834	...	29 30
63 8,782,878	10 114,198	48 200,724	12 168,501	33 649,531	134 549,680	70 5,495,725	8 65,610	2 12,401	100 220,733	211 556,974	6 23,833	31 32
63 68,803	20 19,098	51 96,592	82 119,612	8 11,059	25 129,430	110 194,260	1 1,040	38 63,717	14 18,587	32 55,549	...	33 34
79 8,805,054	11 114,698	59 217,629	41 234,304	33 649,531	154 467,976	133 5,744,714	8 65,870	28 38,299	108 223,895	203 533,314	6 23,833	35 36
113 8,268,377	24 249,053	98 5,002,268	95 824,238	22 298,591	36 2,136,236	225 28,895,392	5 558,392	54 401,765	114 4,404,324	140 1,579,398	6 145,293	37 38
53 267,635	22 241,561	75 2,308,055	95 785,638	11 110,334	22 1,853,349	175 13,031,672	3 350,197	22 215,992	49 1,304,272	45 598,533	1 2,300	39 40
47 57.3	22 172.5	66 260.3	93 551.2	11 38.4	22 134.6	171 3,224.7	2 60.9	22 45.2	38 97.8	40 261.8	...	41 42
18 68.7	...	6 20.4	10 43.5	...	...	17 117.0	2 3.6	...	6 8.5	12 78.5	...	43 44
...	3 2.2	9 43.7	3 10.4	...	...	4 4.7	...	...	11 30.7	5 12.0	...	45 46
...	...	9 16	1 ...	...	...	5 ...	...	...	13 17	5 8	...	47 48
6	...	7	...	...	...	4	...	2	18	1	...	49
77 8,000,742	7 7,492	44 2,694,213	5 38,600	15 188,257	17 282,887	141 15,863,720	5 208,195	46 185,773	108 3,100,052	118 980,865	50 142,993	51

DRAINAGE OF AGRICULTURAL LANDS

Summary Table 6.—NUMBER OF DRAINAGE PROJECTS.

State	1960 Census			1950 Census, number of drainage projects in 1950		
	Number of drainage projects in 1960		Number of superseded projects reporting operations 1950-1959 ¹	State count	County count	Excluding irrigation enterprises reporting drainage ²
	State count	County count				
All drainage States.....	8,461	9,298	24	614,533	15,353	5,497
10 "county-drain" States.....	1,397	1,444	...	457	457	445
30 "drainage district" States.....	7,064	7,854	24	614,076	14,896	5,052
17 irrigation States.....	3,197	3,375	22	10,462	11,173	1,798
13 other States.....	3,907	4,479	2	3,214	3,723	3,214
Alabama.....	11	14	...	10	13	10
Arizona.....	...	...	...	25	25	2
Arkansas.....	998	647	1	844	883	267
California.....	356	391	1	2,047	2,097	163
Colorado.....	16	18	...	630	662	51
Delaware.....	60	60	...	2	2	2
Florida.....	516	565	2	1,889	1,926	238
Georgia.....	52	65	...	55	76	55
Idaho.....	33	34	...	379	396	44
Illinois.....	1,496	1,765	1	1,433	1,662	1,433
Indiana.....	292	299	...	79	79	79
Iowa.....	249	263	...	86	86	86
Kansas.....	103	116	5	121	132	84
Kentucky.....	28	31	...	18	18	18
Louisiana.....	915	946	4	922	946	411
Maryland.....	138	146	...	93	104	93
Michigan.....	86	88	...	54	54	84
Minnesota.....	307	325	...	82	82	82
Mississippi.....	590	676	...	441	514	441
Missouri.....	425	477	...	318	379	318
Montana.....	20	21	...	404	412	27
Nebraska.....	103	118	...	473	506	154
Nevada.....	2	2	1	82	86	5
New Jersey.....	9	11	...	5	6	5
New Mexico.....	5	5	...	223	230	5
New York.....	19	22	...	14	16	14
North Carolina.....	564	608	...	413	442	413
North Dakota.....	161	161	...	21	21	15
Ohio.....	142	144	...	63	63	63
Oklahoma.....	31	32	...	18	18	14
Oregon.....	110	114	1	1,087	1,094	55
South Carolina.....	123	135	...	45	52	45
South Dakota.....	41	41	...	34	34	32
Tennessee.....	179	228	1	191	205	151
Texas.....	243	257	1	543	569	97
Utah.....	9	9	...	471	474	36
Virginia.....	66	69	...	30	30	30
Washington.....	122	124	6	533	541	140
Wisconsin.....	235	263	...	206	224	206
Wyoming.....	6	6	...	189	194	19

¹Italics indicate States identified in 1950 as "county-drain" States. The other States were designated "drainage-district" States. For the "county-drain" States, in 1950, all drainage projects in each county were enumerated as a unit, therefore, the counts shown for that year represent the number of county reports. For 1940, 1930, and 1920, each drain was counted as a separate project. See text.

²Boldface indicates States, other than "county-drain," for which the 1950 drainage data included drained lands in "irrigation enterprises" enumerated in the Census of Irrigation. See footnote 2 and text.

³State count; one project (in Florida) reported operations, 1950-1959, in 10 counties.

⁴State count; the projects excluded represented "irrigation enterprises" enumerated in the 1950 Census of Irrigation which showed land drained. Such reports, from the 1950 Census of Irrigation, were included in the data presented for the 1950 Census of Drainage. See text.

⁵Includes number of drainage projects shown in 1940 Census of Drainage plus reports in the 1940 Census of Irrigation showing land drained. For "county-drain" States, no count of projects was carried in the 1950 report. See text.

⁶Number of reports include projects that had been wholly superseded by other projects and, for intercounty projects, the reports for each county. See text.

⁷The number of reports for 1920, as shown in the 1940 Census of Drainage report, differs from the number shown in the 1920 report with no explanation of the differences.

⁸Total number of projects shown in the 1950 report was 14,066 which total represented 30 "drainage-district" States. (No count was shown for 10 "county-drain" States.) That total was 10 fewer than the "30-State" total shown here due to interstate projects. In this table, an interstate project was counted in each State in which a part was located.

⁹Number shown on page 368 of the 1920 report; the sum of the numbers reported for the separate States equals 56,190.

¹⁰Not shown separately in 1920; combined total for this and 4 other States was shown as 18.

BY STATES: CENSUSES OF 1920 TO 1960

State	1940 Census					1930 Census, number of reports ⁴	1920 Census, number of reports ⁴	
	Number of drainage projects in 1940			Number of reports in 1940 ⁵			As carried in 1920 Census of Drainage report	As carried in 1940 Census of Drainage report ⁵
	State count	County count	As carried in 1950 Census of Drainage report ³	Total	Excluding those for less than 500 acres			
All drainage States.....	39,597	42,363	(3)	79,220	37,530	67,927	756,949	47,399
10 "canby-chain" States.....	34,596	36,630	(3)	72,993	32,151	62,391	52,962	44,172
30 "drainage district" States.....	5,001	5,723	9,403	6,227	5,379	5,436	3,228	3,227
17 Irrigation States.....	1,747	1,926	6,147	2,140	2,020	2,119	906	905
13 other States.....	3,254	3,807	3,256	4,087	3,359	3,417	2,322	2,322
Alabama.....	1	2	1	2	2	...	...	...
Arizona.....	5	5	23	5	5	7	(8)	3
Arkansas.....	250	287	346	323	318	316	174	174
California.....	158	184	1,067	188	179	162	145	144
Colorado.....	36	67	297	67	65	58	24	24
Delaware.....	287	287	(3)	640	365	...	...	...
Florida.....	101	126	948	126	122	146	94	94
Georgia.....	52	78	52	78	50	59	46	46
Idaho.....	50	57	250	57	52	50	13	13
Illinois.....	1,695	1,961	1,695	2,080	1,793	1,919	1,365	1,365
Indiana.....	8,893	9,271	(3)	22,963	7,807	18,339	12,004	11,348
Iowa.....	3,180	3,439	(3)	3,804	2,519	3,730	2,883	2,883
Kansas.....	88	92	132	92	82	88	54	54
Kentucky.....	144	160	(3)	193	143	216	179	179
Louisiana.....	495	511	1,129	661	660	741	111	111
Maryland.....	126	126	126	131	96	...	...	...
Michigan.....	7,692	8,130	(3)	12,041	6,318	10,640	10,453	8,583
Minnesota.....	2,498	2,732	(3)	3,059	2,768	2,885	2,340	2,340
Mississippi.....	271	343	273	350	328	344	167	167
Missouri.....	286	338	286	384	367	367	238	238
Montana.....	34	39	239	40	37	27	17	17
Nebraska.....	125	145	195	152	142	138	123	123
Nevada.....	8	9	44	9	8	7	(8)	1
New Jersey.....	...	...	...	...	...	...	...	...
New Mexico.....	7	14	169	14	14	11	(8)	8
New York.....	...	...	...	...	...	...	...	...
North Carolina.....	246	288	246	271	271	130	104	104
North Dakota.....	141	145	(3)	164	164	152	137	137
Ohio.....	11,530	12,222	(3)	29,877	11,853	26,191	24,871	18,607
Oklahoma.....	29	29	(3)	29	29	33	(8)	5
Oregon.....	63	65	338	66	49	51	(8)	1
South Carolina.....	24	32	32	31	31	31	17	17
South Dakota.....	202	215	(3)	223	185	205	90	90
Tennessee.....	155	207	155	213	176	191	95	95
Texas.....	81	91	180	93	92	87	54	54
Utah.....	36	37	240	37	35	32	17	17
Virginia.....	2	2	2	2	2	...	...	...
Washington.....	165	169	375	182	133	172	52	52
Wisconsin.....	396	430	396	444	243	373	290	290
Wyoming.....	25	28	175	28	27	26	15	15

DRAINAGE OF AGRICULTURAL LANDS

Summary Table 7.—LAND IN DRAINAGE PROJECTS, AND LAND

State	Land in drainage projects ¹ (acres)								
	1960			1950		1940		1930	
	Total	Not used for agriculture or not drained ²	Net area drained and used for agriculture ³	Total	Excluding irrigation enterprises reporting drainage ⁴	Total	In occupied farms	Total	In occupied farms
All drainage States.....	101,870,257	9,573,393	92,296,864	102,688,331	98,569,272	86,967,039	70,068,469	84,408,093	68,640,109
10 "county-drain" States.....	52,544,324	1,708,987	50,835,337	52,033,141	52,023,655	47,094,801	42,029,555	47,720,374	44,455,175
30 "drainage-district States".....	49,325,933	7,864,406	41,461,527	50,655,190	46,545,617	39,872,238	28,038,916	36,687,719	24,184,934
17 irrigation States.....	33,707,337	7,443,626	26,263,711	35,995,203	31,885,330	26,098,986	15,946,189	23,043,464	13,174,943
13 other States.....	15,618,596	420,780	15,197,816	14,659,987	14,659,987	13,773,252	12,092,727	13,644,255	11,009,991
Alabama.....	69,901	4,000	65,901	76,671	76,671	28,045	28,045	...	...
Arizona.....	...	...	...	197,268	3,385	298,633	296,276	318,931	304,802
Arkansas.....	4,870,106	189,140	4,680,966	4,701,095	4,606,628	4,592,738	3,100,342	4,631,155	2,940,035
California.....	1,934,828	23,976	1,911,251	2,554,276	1,453,537	2,667,194	2,531,036	2,233,774	2,024,446
Colorado.....	55,496	...	55,496	623,976	304,364	468,322	392,132	366,719	309,966
Delaware.....	356,702	15,780	340,922	352,547	352,547	395,024	394,164	...	...
Florida.....	9,222,317	4,367,190	4,855,327	6,083,076	5,933,918	5,699,022	5,954,934	398,200	1,637,073
Georgia.....	94,728	1,500	93,228	96,259	96,259	84,374	83,874	84,255	63,865
Idaho.....	130,982	20,000	110,982	436,171	143,577	659,136	650,135	375,464	362,303
Illinois.....	5,616,121	52,695	5,563,426	5,370,825	5,370,825	5,091,364	4,911,263	5,032,682	5,005,376
Indiana.....	11,120,936	67,490	11,053,446	11,017,709	11,017,709	10,121,952	9,703,805	10,214,014	10,150,221
Iowa.....	6,884,409	13,070	6,871,339	6,734,863	6,734,863	6,164,344	5,945,393	6,137,649	6,105,496
Kansas.....	402,330	29,220	373,110	356,988	355,089	258,113	250,455	237,169	253,845
Kentucky.....	945,515	56,716	888,799	959,892	959,892	465,070	464,963	585,625	515,101
Louisiana.....	9,089,516	1,978,892	7,110,624	12,161,665	12,077,915	4,219,624	2,512,250	3,655,483	2,571,531
Maryland.....	353,437	3,390	350,047	323,815	323,815	183,397	181,891	...	...
Michigan.....	10,208,735	331,686	9,877,049	10,194,439	9,878,386	7,796,979	7,796,979	9,180,851	8,826,265
Minnesota.....	11,688,201	1,127,393	10,560,808	11,269,962	10,990,409	8,397,586	11,474,683	8,782,323	9,232,709
Mississippi.....	3,123,427	82,620	3,040,807	3,023,744	3,023,744	2,890,618	2,182,729	2,988,496	2,092,899
Missouri.....	3,123,426	26,100	3,097,316	3,147,484	3,147,484	3,087,063	2,673,169	3,150,022	2,427,999
Montana.....	62,222	2,110	60,112	289,189	99,692	372,661	362,711	167,629	150,844
Nebraska.....	744,207	4,987	739,220	821,088	717,791	916,181	849,948	879,459	864,159
Nevada.....	41,521	...	41,521	251,154	138,095	153,773	148,617	162,980	155,491
New Jersey.....	11,756	800	10,956	11,206	11,206	...	...	...	...
New Mexico.....	31,593	...	31,593	244,961	52,113	305,885	286,890	176,292	151,516
New York.....	49,616	...	49,616	56,465	56,465	...	...	...	...
North Carolina.....	1,418,892	98,389	1,320,503	1,128,509	1,128,509	825,576	673,034	679,236	331,121
North Dakota.....	1,642,543	1,360	1,641,183	1,777,220	1,565,055	1,376,041	1,322,973	1,094,142	1,040,328
Ohio.....	8,904,907	95,492	8,809,415	8,971,362	8,923,362	7,729,267	7,173,937	8,165,494	8,132,973
Oklahoma.....	133,796	...	133,796	370,894	298,853	197,646	182,980	170,158	163,936
Oregon.....	274,754	4,300	270,454	418,858	178,493	348,825	302,870	211,182	146,576
South Carolina.....	339,966	1,900	338,066	249,011	249,011	204,366	202,002	208,249	94,764
South Dakota.....	658,580	...	658,580	707,363	708,573	676,472	647,173	697,758	684,745
Tennessee.....	730,855	139,976	590,879	615,838	615,838	601,592	579,283	593,560	413,791
Texas.....	6,500,043	808,913	5,691,130	5,794,786	5,321,147	4,218,850	2,819,775	2,883,356	1,895,486
Utah.....	68,910	2,000	66,910	302,158	150,193	202,058	140,148	156,052	109,518
Virginia.....	98,478	5,700	92,778	45,460	45,460	15,774	15,774	25,042	5,704
Washington.....	254,482	13,300	241,182	431,613	272,908	405,709	380,964	367,242	351,898
Wisconsin.....	587,833	3,710	584,123	514,700	514,700	761,203	561,723	892,713	574,892
Wyoming.....	23,833	...	23,833	325,981	86,785	312,662	287,420	245,703	188,327

Italics indicate States identified in 1950 as "county-drain" States. The other States were designated "drainage-district" States. For the "county-drain" States, all projects in each county were enumerated in 1950 with county drains, and handled as though they were one project. See text.

Boldface indicates States, other than "county-drain," for which the 1950 drainage data included drained lands in "irrigation enterprises" enumerated in the Census of Irrigation. See footnote 4 and text.

¹Land in two or more projects counted only once.

²Extensive contiguous areas not used for agriculture or not drained. See text.

³Interspersed nonagricultural or nonirrigated areas not excluded. See footnote 2 and text.

⁴The areas excluded represented drained land reported by "irrigation enterprises" enumerated in the 1950 Census of Irrigation. Such reports, from the 1950 Census of Irrigation, were included in the data presented for the 1950 Census of Drainage. See text.

⁵No drainage projects reported for year indicated.

SUMMARY

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IN FARMS, BY STATES: CENSUSES OF 1920 TO 1960

State	Land in farms (acres)					Approximate land area, 1960 (acres) (39 States)
	1960 (39 States)	1950 (40 States)	1940 (38 States)	1930 (35 States)	1920 (34 States)	
All drainage States.....	1,052,713,726	1,123,690,602	1,004,930,884	905,805,407	844,904,236	1,744,413,440
10 "county-drain" States.....	256,439,668	267,325,123	259,904,491	252,100,464	251,724,783	337,139,200
30 "drainage-district" States.....	796,274,058	856,365,479	745,026,393	653,704,943	593,179,453	1,407,274,240
17 irrigation States.....	584,235,150	612,591,041	525,174,982	464,801,528	408,684,469	1,047,208,320
13 other States.....	212,038,908	243,774,438	219,851,411	188,903,415	184,494,984	360,065,920
Alabama.....	16,542,730	20,888,784	19,143,391	(⁵)	(⁵)	32,678,400
Arizona.....	(¹)	39,916,440	25,651,092	10,526,627	5,802,126	(⁵)
Arkansas.....	16,458,515	18,871,244	18,044,542	16,032,962	17,456,750	33,599,360
California.....	36,887,948	36,613,291	30,524,324	30,442,581	29,365,667	100,206,720
Colorado.....	38,787,312	37,953,059	31,527,240	28,876,171	24,462,014	66,485,760
Delaware.....	762,526	851,291	895,507	(⁵)	(⁵)	1,265,920
Florida.....	15,236,521	16,527,536	8,337,708	5,026,617	6,046,691	34,721,280
Georgia.....	19,657,615	25,751,055	23,683,631	22,078,630	25,441,061	37,295,360
Idaho.....	15,232,401	13,224,192	10,297,745	9,346,908	8,375,873	52,933,120
Illinois.....	30,327,261	30,978,495	31,032,572	30,695,339	31,974,775	35,795,200
Indiana.....	18,613,046	19,658,677	19,800,778	19,688,675	21,063,332	23,158,400
Iowa.....	33,830,950	34,264,639	34,148,673	34,019,332	33,474,896	35,860,480
Kansas.....	50,152,870	48,611,366	48,173,635	46,972,647	45,425,179	52,510,720
Kentucky.....	17,030,675	19,441,774	20,284,016	19,927,286	21,612,772	25,512,320
Louisiana.....	10,347,328	11,202,278	9,996,108	9,355,437	10,019,822	28,867,840
Maryland.....	3,456,769	4,055,529	4,197,827	(⁵)	(⁵)	6,319,360
Michigan.....	14,785,507	17,269,992	18,037,955	17,118,951	19,032,961	36,492,160
Minnesota.....	30,796,097	32,883,163	32,606,962	30,913,367	30,221,758	51,205,760
Mississippi.....	18,630,263	20,710,770	19,156,058	17,332,195	18,196,979	30,222,720
Missouri.....	33,155,226	35,123,143	34,739,598	33,743,019	34,774,679	44,248,320
Montana.....	64,081,391	59,247,434	46,451,594	44,659,152	35,070,656	93,271,040
Nebraska.....	47,755,708	47,466,828	47,343,981	44,708,565	42,225,475	49,031,680
Nevada.....	10,942,936	7,063,525	3,785,106	4,080,906	2,357,163	70,264,320
New Jersey.....	1,379,002	1,725,441	(⁵)	(⁵)	(⁵)	4,813,440
New Mexico.....	46,293,207	47,521,809	38,860,427	30,822,034	24,409,633	77,766,400
New York.....	13,489,516	16,016,721	(⁵)	(⁵)	(⁵)	30,680,960
North Carolina.....	15,887,724	19,317,937	18,845,338	18,055,103	20,021,736	31,402,880
North Dakota.....	41,465,717	41,194,044	37,936,136	38,657,894	36,214,751	44,452,480
Ohio.....	18,506,796	20,969,411	21,907,523	21,514,059	23,515,888	26,222,080
Oklahoma.....	35,800,688	36,006,603	34,803,517	33,790,817	31,951,934	44,087,680
Oregon.....	21,236,298	20,327,683	17,988,307	16,548,678	13,542,318	61,598,720
South Carolina.....	9,149,492	11,878,793	11,238,697	10,393,113	12,426,675	19,374,080
South Dakota.....	44,850,666	44,785,529	39,473,584	36,470,083	34,636,491	48,881,920
Tennessee.....	16,081,285	18,534,380	18,492,898	18,003,241	19,510,856	26,727,680
Texas.....	143,217,559	145,389,014	137,683,372	124,707,130	114,020,621	168,217,600
Utah.....	12,688,518	10,865,165	7,302,007	5,613,101	5,050,410	52,696,960
Virginia.....	13,125,802	15,572,295	16,444,907	16,728,620	(⁵)	25,496,320
Washington.....	18,716,972	17,369,245	15,181,815	13,533,778	13,244,720	42,693,760
Wisconsin.....	21,156,223	23,221,095	22,876,494	21,874,155	22,148,223	39,011,200
Wyoming.....	36,199,666	34,420,892	28,025,979	23,525,234	11,809,351	62,343,040

DRAINAGE OF AGRICULTURAL LANDS

Summary Table 8.—LAND IN DRAINAGE PROJECTS, AND TOTAL AREA OF INDIVIDUAL PROJECTS, 1920 TO 1960;

State	Land in drainage projects ¹ (acres)					Areas served by two or more projects, 1960				
	1960	1950	1940	1930	1920	Number of projects with land served by other projects	Areas with multiple service ¹ (acres)			
							Total	Served by two projects	Served by three projects	Served by four projects
All drainage States.....	92,296,864	102,688,331	86,967,039	84,408,093	65,495,038	3,031	6,276,437	5,769,168	489,409	17,860
16 "county-drain" States.....	50,835,337	52,033,141	47,094,801	47,720,374	43,213,765	625	1,056,170	1,038,038	18,132	...
30 "drainage-district" States.....	41,461,527	50,655,190	39,872,238	36,687,719	22,281,273	2,406	5,220,267	4,731,130	471,277	17,860
17 irrigation States.....	26,263,711	35,995,203	26,098,986	23,043,464	12,268,025	1,535	3,930,927	3,545,169	369,998	15,830
13 other States.....	15,197,816	14,659,987	13,773,252	13,644,255	10,013,248	871	1,289,310	1,185,961	101,319	2,030
Alabama.....	65,901	76,671	28,045	...	...	...	...	...	...	...
Arizona.....	...	197,268	298,633	318,931	39,640	...	...	...	...	...
Arkansas.....	4,680,966	4,701,095	4,592,758	4,631,155	3,479,591	321	917,881	766,460	136,351	15,070
California.....	1,911,251	2,554,976	2,667,194	2,233,714	1,108,319	116	106,696	105,096	1,600	...
Colorado.....	55,496	623,976	468,322	366,719	171,656	...	...	...	...	...
Delaware.....	340,922	352,547	395,014	...	...	2	600	600	...	...
Florida.....	4,855,327	6,083,676	5,699,022	5,954,394	1,637,073	246	1,353,192	1,213,420	139,572	200
Georgia.....	93,228	96,259	84,374	84,255	65,452	10	7,621	6,616	1,005	...
Idaho.....	110,982	436,171	659,136	375,464	64,642	...	...	...	...	...
Illinois.....	5,363,426	5,370,825	5,091,364	5,032,682	3,909,049	199	293,808	267,972	25,836	...
Indiana.....	11,053,446	11,017,709	10,121,952	10,214,014	9,087,183	206	210,322	206,242	4,080	...
Iowa.....	6,871,359	6,734,863	6,164,344	6,137,649	5,224,478	38	190,819	189,407	1,412	...
Kansas.....	373,110	356,988	298,113	297,169	39,856	13	4,873	4,873	...	...
Kentucky.....	888,799	959,892	465,270	585,625	358,480	2	2,000	2,000	...	...
Louisiana.....	7,110,624	12,161,665	4,219,624	3,655,483	2,266,328	737	1,255,460	1,164,305	90,595	560
Maryland.....	350,447	323,815	183,337	...	...	38	44,541	42,743	1,798	...
Michigan.....	9,877,049	10,194,439	8,978,386	9,180,851	9,729,171	41	23,279	23,279	...	...
Minnesota.....	10,560,808	11,269,962	10,990,409	11,474,683	9,232,709	154	475,138	465,938	9,200	...
Mississippi.....	3,040,607	3,023,744	2,890,618	2,988,496	1,601,444	251	294,417	274,941	19,476	...
Missouri.....	3,097,316	3,147,484	3,087,063	3,150,022	2,596,204	210	517,507	465,731	51,746	2,030
Montana.....	60,112	239,189	372,661	167,629	168,682	...	...	...	...	...
Nebraska.....	797,220	821,088	916,161	879,459	607,730	6	1,784	1,784	...	...
Nevada.....	41,521	253,154	133,373	162,980	15,940	...	...	...	...	...
New Jersey.....	10,956	11,206	...	...	...	...	...	...	...	...
New Mexico.....	31,593	244,961	305,885	176,292	140,219	...	...	...	...	...
New York.....	49,616	56,465	...	...	...	...	...	...	...	...
North Carolina.....	1,320,503	1,128,509	825,576	679,236	542,828	120	95,071	93,613	1,498	...
North Dakota.....	1,641,183	1,572,220	1,376,043	1,094,142	1,240,328	84	87,840	84,680	3,160	...
Ohio.....	8,809,415	8,923,362	7,729,267	8,165,494	8,107,204	74	64,162	63,882	280	...
Oklahoma.....	133,796	300,884	197,646	170,158	12,150	...	...	...	...	...
Oregon.....	270,454	418,858	348,825	211,182	4,000	17	41,927	40,087	1,840	...
South Carolina.....	338,066	249,011	204,366	208,249	140,031	6	15,850	15,850	...	...
South Dakota.....	658,580	707,263	676,472	697,758	222,062	4	2,010	2,010	...	...
Tennessee.....	590,879	615,838	601,592	593,560	363,671	7	6,527	6,527	...	...
Texas.....	5,691,130	5,794,766	4,218,850	2,883,356	2,166,128	77	247,844	247,844	...	...
Utah.....	66,910	302,158	202,058	156,052	113,823	...	...	...	...	...
Virginia.....	92,778	45,460	15,714	15,042	...	18	9,198	9,198	...	...
Washington.....	241,182	431,613	405,709	367,242	94,924	2	1,300	1,300	...	...
Wisconsin.....	584,093	514,700	761,203	892,713	784,569	12	4,770	4,770	...	...
Wyoming.....	23,833	325,981	312,662	245,703	95,474	...	...	...	...	...

Italics indicate States identified in 1950 as "county-drain" States. The other States were designated "drainage-district" States. For the "county-drain" States all drainage projects in each county were enumerated as a unit. See footnote 5 and text.

Boldface indicates States, other than "county-drain," for which the 1950 drainage data included drained lands in "irrigation enterprises" enumerated in the Census of Irrigation.

¹Land in two or more projects included only once.

²Difference in the sum of individual projects and the land in drainage projects counting land included in two or more projects only once (see footnotes 1 and 3); land in three or more projects counted two or more times. This duplication in counting results in some totals of overlapped areas exceeding the total land in drainage projects.

³Land in two or more projects included in each project. Areas shown equal the sum of areas of individual projects, with no deduction for land included in more than one project.

⁴For 1940, 1950, and 1960, data include projects that had been superseded but had contributed to the investment and works of a later project.

⁵For "county-drain" States in 1950, all projects in each county were enumerated as a unit, therefore, no overlapped areas were reported for these States. See text.

SUMMARY

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AREAS SERVED BY TWO OR MORE PROJECTS, 1960; AND OVERLAPPED AREAS, 1920 TO 1950; BY STATES

State	Overlapped areas, 1920 to 1950 ² (acres)				Totals of areas of individual projects ³ (acres)				
	1950	1940 ⁴	1930 ⁴	1920 ⁴	1960	1950	1940 ⁴	1930 ⁴	1920 ⁴
All drainage States.....	3,962,516	45,861,412	44,086,985	30,134,253	99,098,430	106,650,847	132,828,451	128,495,078	95,629,291
10 "county-drain" States.....	(⁵)	40,526,363	39,130,569	28,798,310	51,909,639	52,033,141	87,621,164	86,850,923	71,972,075
30 "drainage-district" States.....	3,962,516	5,335,049	4,956,436	1,375,943	47,188,791	54,617,706	45,207,287	41,644,155	23,657,216
17 irrigation States.....	2,582,562	2,834,894	3,090,189	673,068	30,596,286	38,777,765	28,933,880	26,139,653	12,941,093
13 other States.....	1,379,954	2,500,155	1,860,247	702,875	16,592,505	16,039,941	16,273,407	15,504,502	10,716,123
Alabama.....	...	...	...	...	65,901	76,671	28,045	...	...
Arizona.....	...	2,274	...	...	...	197,268	300,907	318,931	39,640
Arkansas.....	629,514	1,040,561	1,133,653	363,221	5,765,338	5,330,609	5,633,299	5,764,808	3,842,812
California.....	...	88,563	60,354	...	2,019,547	2,954,576	3,755,757	2,494,068	1,308,319
Colorado.....	1,080	972	640	...	55,496	625,056	469,294	367,539	171,656
Delaware.....	(⁵)	248,548	...	...	341,522	352,547	853,562	...	...
Florida.....	1,103,349	764,424	1,418,693	122,868	6,348,491	7,187,025	6,463,446	7,373,627	1,759,941
Georgia.....	...	...	...	...	101,854	96,259	86,374	84,255	65,452
Idaho.....	...	15,396	...	...	110,982	436,171	676,532	372,464	64,642
Illinois.....	299,963	805,760	709,234	181,550	5,883,070	5,670,788	5,897,124	5,741,916	4,090,599
Indiana.....	(⁵)	9,850,573	212,835,773	5,928,038	11,267,848	11,017,709	19,972,525	23,049,787	15,015,221
Iowa.....	(⁵)	1,380,587	1,259,995	681,265	7,063,570	6,734,863	7,544,931	7,397,644	5,905,743
Kansas.....	6,353	833	557	...	377,983	363,341	258,946	257,726	93,856
Kentucky.....	(⁵)	50,347	40,783	...	890,799	959,892	215,617	626,408	358,480
Louisiana.....	509,987	483,850	437,630	75,706	8,457,799	12,671,652	4,703,474	4,093,113	2,342,034
Maryland.....	41,853	7,585	...	...	396,786	365,668	190,922	...	...
Michigan.....	(⁵)	7,091,887	5,851,861	6,037,307	9,900,328	10,194,439	16,070,273	15,032,692	15,766,478
Minnesota.....	(⁵)	3,711,787	3,236,822	741,953	11,045,146	11,269,962	14,702,196	14,681,505	9,974,662
Mississippi.....	288,315	236,252	171,468	3,040	3,354,500	3,312,059	3,126,870	3,159,944	1,604,484
Missouri.....	671,651	1,347,916	961,548	508,685	3,670,629	3,819,135	4,434,979	4,111,570	3,104,889
Montana.....	3,336	1,528	...	...	60,112	292,525	376,189	167,629	168,682
Nebraska.....	157,413	89,360	14,440	100,720	741,004	978,501	1,005,541	893,899	708,450
Nevada.....	...	...	...	...	41,521	251,154	153,373	162,980	15,940
New Jersey.....	...	...	...	...	10,956	11,206	...	...	...
New Mexico.....	...	...	...	...	31,593	244,961	305,885	176,292	140,219
New York.....	...	...	...	...	49,616	56,465	...	...	...
North Carolina.....	63,304	74,272	9,200	9,600	1,417,032	1,191,813	899,868	688,346	552,428
North Dakota.....	(⁵)	464,740	89,240	...	1,732,383	1,572,220	1,840,781	1,183,382	1,240,328
Ohio.....	(⁵)	217,482,794	215,845,135	215,397,608	8,873,857	8,923,362	25,212,061	24,010,629	23,464,812
Oklahoma.....	(⁵)	...	960	...	133,796	300,884	197,646	171,118	12,150
Oregon.....	...	5,090	...	...	314,221	418,858	353,915	211,182	4,000
South Carolina.....	8,000	...	...	...	353,916	257,011	204,366	208,249	140,031
South Dakota.....	(⁵)	35,100	...	12,139	660,590	707,263	711,572	697,758	234,201
Tennessee.....	5,148	16,980	5,832	...	597,406	620,986	618,172	599,392	363,671
Texas.....	134,831	312,320	...	...	5,936,974	5,929,617	4,531,170	2,883,356	2,166,128
Utah.....	5,292	2,092	...	...	66,910	307,450	204,150	156,052	113,823
Virginia.....	...	...	...	...	101,978	45,460	15,714	15,042	...
Washington.....	30,907	27,631	27,609	10,593	242,482	462,520	433,540	394,851	105,477
Wisconsin.....	1,720	11,790	2,985	...	588,863	516,420	772,993	895,698	794,569
Wyoming.....	500	...	2,613	...	23,833	326,481	312,662	248,316	95,474

Summary Table 9.—COST OF DRAINAGE,

State	Cost of drainage works and services, 10-year period preceding Census date				Cost of new drainage works			
	1950-1959 (1960 Census)		1940-1949 ² (1950 Census)		1950-1959 (1960 Census)		1940-1949 ² (1950 Census)	
	Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Dollars
All drainage States.....	6,137	416,875,865	3,810	179,033,770	3,606	185,688,673	1,128	23,872,422
10 "county-drain" States.....	1,048	125,490,706	384	68,802,080	708	38,636,067	345	7,584,076
30 "drainage-district" States.....	5,089	291,385,159	3,426	110,231,690	2,898	147,052,606	983	16,288,346
17 irrigation States.....	2,672	232,295,724	1,460	76,033,098	1,865	124,850,751	402	12,518,129
13 other States.....	2,417	99,089,435	1,966	34,198,592	1,033	22,201,855	581	3,770,217
Alabama.....	6	31,061	8	70,223	4	25,812	7	58,768
Arizona.....	...	...	...	...	...	...	...	...
Arkansas.....	471	20,488,226	127	5,540,041	352	9,044,351	28	391,898
California.....	344	29,065,257	159	15,526,510	206	4,525,825	16	135,346
Colorado.....	15	178,196	47	773,236	3	3,750	5	23,445
Delaware.....	48	476,944	32	173,300	33	399,511	31	3,326
Florida.....	450	91,627,636	207	18,602,511	338	68,012,516	63	2,707,207
Georgia.....	23	118,012	22	132,354	21	109,012	22	107,104
Idaho.....	29	2,011,573	44	906,297	16	200,332	12	132,962
Illinois.....	1,027	28,691,965	892	16,860,472	228	11,114,587	103	1,217,137
Indiana.....	254	13,598,832	375	8,206,459	158	2,528,431	322	785,767
Iowa.....	202	21,032,259	377	13,302,757	110	5,726,914	335	2,143,453
Kansas.....	96	1,665,416	60	1,116,786	45	850,795	10	279,036
Kentucky.....	17	897,753	314	711,162	10	97,291	35	44,832
Louisiana.....	753	45,796,344	392	16,652,384	576	24,432,591	142	5,316,026
Maryland.....	29	409,398	28	183,309	23	393,792	22	129,578
Michigan.....	79	37,186,074	351	20,235,636	67	4,783,366	337	2,556,472
Minnesota.....	248	41,809,993	371	18,310,583	207	23,831,372	330	1,594,914
Mississippi.....	374	9,557,061	345	5,702,914	223	3,855,591	156	441,404
Missouri.....	302	12,138,361	225	8,281,620	117	936,432	9	114,063
Montana.....	18	721,491	25	462,260	11	211,129	9	167,830
Nebraska.....	40	1,388,561	75	1,533,019	12	417,911	27	757,990
Nevada.....	3	219,002	5	193,919	1	84,215	2	62,292
New Jersey.....	8	40,617	5	39,357	7	39,967	5	34,407
New Mexico.....	5	127,433	5	74,636	2	70,840	...	...
New York.....	13	202,013	12	177,224	7	86,009	7	75,119
North Carolina.....	310	2,959,290	250	1,438,698	219	2,187,155	158	737,994
North Dakota.....	41	1,672,790	313	890,373	37	649,652	36	245,364
Ohio.....	113	8,658,377	354	6,189,421	53	267,635	38	147,941
Oklahoma.....	24	249,053	310	299,114	22	241,561	31	62,027
Oregon.....	98	5,002,268	50	2,175,816	75	2,308,055	17	476,561
South Carolina.....	95	824,238	33	319,486	95	785,638	27	206,956
South Dakota.....	22	298,591	317	483,275	11	110,334	...	...
Tennessee.....	36	2,136,236	26	270,623	22	1,853,349	23	255,697
Texas.....	225	28,895,392	89	9,534,229	175	13,031,672	32	1,822,245
Utah.....	5	558,392	30	836,973	3	350,197	13	29,181
Virginia.....	54	401,765	28	111,394	22	215,992	27	95,794
Washington.....	114	4,404,324	131	1,541,318	49	1,304,272	24	203,873
Wisconsin.....	140	1,799,398	92	610,518	45	598,533	15	296,176
Wyoming.....	6	145,293	14	163,163	1	2,300	2	12,237

NA Not available.

Italics indicate States identified in 1950 as "county-drain" States. The other States were designated "drainage-district" States. For the "county-drain" States in 1950 all drainage projects in each county were enumerated as a unit. See text.

Boldfics indicate States, other than "county-drain," for which the 1950 drainage data included drained lands in "irrigation enterprises" enumerated in the Census of Irrigation. See text.

¹Total cost of drainage works and services minus cost of new works.

²For 1950, Census data on costs of drainage works and services not available for 9,076 projects and 4,119,059 acres in "irrigation enterprises" enumerated in Census of Irrigation. For 1950, Census cost of new works reported for 1940-1949 relates to new works for lands not previously drained. See text.

³For 1950 Census for "county-drain" States, count of projects reporting represents counties reporting—in that year all drains in each county were enumerated as a unit. See text.

SUMMARY

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BY STATES: CENSUSES OF 1920 TO 1960

State	Cost of maintenance, operation, repair, and administration ¹				Capital invested prior to Census date		
	1950-1959 (1960 Census)		1940-1949 ² (1950 Census)		1940 Census (dollars)	1930 Census (dollars)	1920 Census (dollars)
	Projects reporting	Dollars	Projects reporting	Dollars			
All drainage States.....	4,042	231,187,192	NA	155,161,348	691,724,519	680,250,255	372,273,567
10 "county-drain" States.....	599	86,854,639	382	61,218,004	280,245,130	285,567,839	183,423,545
30 "drainage-district" States.....	3,443	144,332,553	NA	93,943,344	411,479,389	394,682,416	188,850,022
17 irrigation States.....	1,725	107,444,973	NA	63,514,969	246,416,528	228,456,363	105,366,376
13 other States.....	1,708	56,887,580	NA	30,428,378	165,062,861	166,226,053	83,463,646
Alabama.....	5	5,249	NA	11,455	410,000	...	...
Arizona.....	...	...	NA	...	1,119,242	1,875,100	414,425
Arkansas.....	169	11,443,875	NA	5,148,143	39,450,794	37,532,973	14,147,174
California.....	289	24,539,432	NA	15,791,164	70,144,044	66,451,698	47,687,153
Colorado.....	14	174,446	NA	749,791	4,890,317	4,358,866	1,061,875
Delaware.....	25	77,433	2	169,974	454,883	...	...
Florida.....	312	23,615,120	NA	15,895,304	43,356,692	45,487,795	13,846,807
Georgia.....	3	9,000	NA	25,250	2,064,840	1,918,525	794,585
Idaho.....	29	1,611,241	NA	773,335	7,567,032	5,112,444	1,668,569
Illinois.....	936	17,577,378	NA	15,643,315	72,567,374	74,565,923	42,595,069
Indiana.....	162	11,070,401	75	7,420,692	47,540,385	54,110,854	31,147,682
Iowa.....	138	15,305,385	77	11,159,324	75,374,497	77,478,893	49,627,304
Kansas.....	76	814,621	NA	837,750	3,723,919	2,701,082	936,508
Kentucky.....	10	800,462	13	666,330	4,947,994	5,357,633	1,521,725
Louisiana.....	490	21,363,753	NA	11,336,358	23,361,798	20,752,645	9,021,991
Maryland.....	8	15,600	NA	53,731	43,914	...	...
Michigan.....	55	32,402,708	51	17,679,164	40,412,251	37,677,084	24,683,715
Minnesota.....	97	17,978,621	71	16,715,669	65,576,077	64,139,641	42,017,447
Mississippi.....	206	5,703,470	NA	5,261,510	23,259,677	23,601,443	7,076,164
Missouri.....	224	11,201,969	NA	8,167,557	49,050,414	47,340,174	20,723,128
Montana.....	10	510,362	NA	394,430	2,827,839	1,879,296	664,990
Nebraska.....	36	970,670	NA	775,029	7,578,999	6,847,070	4,588,578
Nevada.....	3	135,687	NA	131,627	1,337,647	1,349,774	117,851
New Jersey.....	1	650	NA	4,950	...	...	...
New Mexico.....	3	56,593	NA	74,636	5,722,121	3,279,371	1,710,796
New York.....	9	116,004	NA	102,105	...	...	...
North Carolina.....	130	772,135	NA	700,704	5,467,906	4,719,079	3,623,518
North Dakota.....	13	1,023,138	13	645,009	3,673,336	3,148,919	2,208,049
Ohio.....	77	8,000,742	59	6,041,430	35,215,586	36,836,449	30,680,145
Oklahoma.....	7	7,492	10	237,087	1,971,350	2,283,598	76,415
Oregon.....	44	2,694,213	NA	1,699,255	5,482,012	4,165,549	200,000
South Carolina.....	5	36,600	NA	112,530	1,241,300	1,265,276	582,183
South Dakota.....	15	188,257	17	483,275	5,078,771	4,534,768	1,461,063
Tennessee.....	17	282,887	NA	14,926	6,501,750	6,366,747	2,925,944
Texas.....	141	15,863,720	NA	7,711,984	14,047,181	12,002,947	5,700,805
Utah.....	5	208,195	NA	807,792	4,869,273	4,772,000	1,005,473
Virginia.....	46	185,773	NA	15,600	201,300	241,608	...
Washington.....	108	3,100,052	NA	1,337,445	5,332,842	4,637,576	1,397,419
Wisconsin.....	118	980,865	NA	314,912	4,254,586	6,207,278	4,163,055
Wyoming.....	6	142,993	NA	150,926	5,594,856	5,250,573	1,175,962

DRAINAGE OF AGRICULTURAL LANDS

Summary Table 10.—TYPES OF DRAINAGE WORKS,

State	Open ditches						
	Constructed, 1950-1959 (1960 Census)		Constructed, 1940-1949 ² (1950 Census)		Completed prior to Census date (miles)		
	Projects reporting	Miles	Projects reporting	Miles	1940 Census	1930 Census	1920 Census
All drainage States.....	3,333	33,543.5	1,200	9,301	146,152.3	138,673.0	107,468.2
10 "mainly-drain" States.....	640	4,746.7	3135	1,484	86,224.8	85,480.9	78,762.7
30 "drainage-district" States.....	2,693	28,796.8	1,065	7,817	59,927.5	53,192.1	28,705.5
17 irrigation States.....	1,759	25,363.2	487	6,009	37,033.9	32,367.3	14,517.8
13 other States.....	934	3,439.6	578	1,808	22,893.6	20,824.8	14,187.7
Alabama.....	4	15.3	7	66	42.3	...	...
Arizona.....	...	...	...	...	100.8	349.4	32.6
Arkansas.....	347	1,796.0	29	123	6,030.3	4,974.3	3,154.1
California.....	167	812.9	15	34	6,091.1	4,605.9	3,009.8
Colorado.....	1	0.3	4	11	972.9	814.9	132.5
Delaware.....	33	215.7	31	2	1,482.3	...	...
Florida.....	327	10,554.6	145	2,263	5,022.1	5,112.6	1,990.8
Georgia.....	21	52.4	22	115	550.3	496.9	276.8
Idaho.....	11	38.6	19	59	968.1	651.2	274.5
Illinois.....	143	374.5	96	273	6,862.2	5,996.4	4,754.5
Indiana.....	135	487.0	219	198	22,008.1	20,786.8	17,470.7
Iowa.....	78	271.1	333	203	5,189.7	4,850.0	3,958.0
Kansas.....	44	168.0	9	48	381.4	334.7	138.4
Kentucky.....	10	28.4	34	22	1,231.8	1,204.8	664.5
Louisiana.....	562	8,202.7	141	2,116	7,105.5	7,701.2	1,771.6
Maryland.....	23	137.2	26	138	461.3	...	...
Michigan.....	64	974.6	334	554	19,608.6	17,188.5	16,023.8
Minnesota.....	205	2,333.2	229	357	15,856.7	14,477.6	14,457.0
Mississippi.....	222	566.6	156	372	4,344.1	4,022.1	1,815.1
Missouri.....	113	296.7	8	30	5,191.5	4,960.5	3,438.7
Montana.....	10	43.0	8	40	420.9	284.2	102.1
Nebraska.....	10	60.6	28	167	1,406.7	1,202.3	734.5
Nevada.....	1	36.5	2	21	426.4	334.8	16.6
New Jersey.....	7	13.6	5	12	...	...	...
New Mexico.....	2	6.3	...	...	625.2	282.9	124.0
New York.....	7	25.5	7	31	...	...	...
North Carolina.....	217	959.0	158	403	1,846.6	1,483.5	1,171.3
North Dakota.....	35	168.5	36	94	940.4	817.6	708.3
Ohio.....	47	57.2	78	38	18,732.2	25,048.2	24,984.0
Oklahoma.....	22	172.5	31	16	334.3	303.0	18.6
Oregon.....	66	260.3	17	90	780.1	495.1	...
South Carolina.....	93	551.2	28	128	459.9	423.0	262.7
South Dakota.....	11	38.4	...	...	840.7	854.4	237.8
Tennessee.....	22	134.6	23	105	1,508.0	1,413.0	777.3
Texas.....	171	3,234.7	33	948	4,906.3	3,661.8	2,728.5
Utah.....	2	60.9	12	29	267.8	304.3	120.3
Virginia.....	22	45.2	27	59	46.7	40.0	...
Washington.....	38	97.8	23	55	885.0	746.7	163.4
Wisconsin.....	40	261.8	15	76	1,980.7	1,989.4	1,691.3
Wyoming.....	2	5	643.3	521.0	25.1

See footnotes at end of table.

SUMMARY

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BY STATES: CENSUSES OF 1920 TO 1960

State	Type of sewer drains						
	Constructed, 1950-1959 (1960 Census)		Constructed, 1940-1949 ² (1950 Census)		Completed prior to Census date (miles)		
	Projects reporting	Miles	Projects reporting	Miles	1940 Census	1930 Census	1920 Census
All drainage States.....	427	2,192.1	146	581	55,734.0	55,031.9	42,311.7
10 "county-drain" States.....	212	1,675.6	81	446	47,262.9	46,530.1	36,191.1
30 "drainage-district" States.....	215	216.5	65	135	8,471.1	8,501.8	6,120.6
17 irrigation States.....	67	224.4	22	48	3,735.6	4,015.9	2,022.8
13 other States.....	148	282.1	43	87	4,735.5	4,485.9	4,077.8
Alabama.....	...	...	...	...	...	...	...
Arizona.....	...	...	...	...	...	14.3	1.0
Arkansas.....	...	...	...	...	10.8	0.1	20.4
California.....	21	46.0	2	11	326.2	486.2	85.6
Colorado.....	1	0.4	1	1	365.3	369.5	195.2
Delaware.....	...	...	...	...	...	...	...
Florida.....	9	23.2	4	16	...	...	...
Georgia.....	1	7.8	1	2	2.0	40.0	...
Idaho.....	1	2.5	2	2	174.6	19.9	1.8
Illinois.....	83	124.9	34	67	4,246.6	3,825.6	3,507.1
Indiana.....	57	160.0	313	48	10,754.7	10,438.7	8,227.6
Iowa.....	60	282.8	123	165	12,873.2	13,382.4	10,384.9
Kansas.....	1	0.1	...	...	210.5	212.1	213.0
Kentucky.....	1	20.0	31	1	2.0	71.0	86.2
Louisiana.....	1	0.1	...	...	6.0	2.0	0.2
Maryland.....	...	...	...	...	...	...	...
Michigan.....	29	208.5	328	145	3,229.5	3,490.2	2,173.9
Minnesota.....	47	935.6	111	80	9,891.4	9,451.3	5,924.6
Mississippi.....	...	...	...	...	34.1	43.5	238.8
Missouri.....	36	8.5	...	...	170.3	123.4	38.8
Montana.....	1	2.2	2	2	73.8	76.7	50.7
Nebraska.....	...	...	1	1	26.3	93.4	359.4
Nevada.....	...	...	...	...	...	4.0	4.0
New Jersey.....	3	5.0	2	2	...	...	...
New Mexico.....	...	...	...	...	308.9	305.4	282.2
New York.....	2	19.8	...	...	...	...	...
North Carolina.....	1	4.1	...	...	...	...	...
North Dakota.....	...	...	...	...	10.4	9.6	9.3
Ohio.....	18	68.7	35	7	10,163.9	9,371.6	9,205.3
Oklahoma.....	...	...	...	...	...	...	...
Oregon.....	6	20.4	2	2	150.6	42.5	13.0
South Carolina.....	10	43.5	3	6	...	150.0	101.5
South Dakota.....	...	...	...	...	335.8	315.3	179.3
Tennessee.....	...	...	1	4	14.1	...	0.3
Texas.....	17	117.0	1	...	14.1	8.5	...
Utah.....	2	3.6	3	5	1,618.6	1,944.5	599.1
Virginia.....	...	...	...	...	...	...	...
Washington.....	6	8.5	4	4	179.0	199.2	4
Wisconsin.....	12	78.5	3	10	282.5	303.4	211.3
Wyoming.....	1	0.4	...	...	262.1	237.6	114.2

DRAINAGE OF AGRICULTURAL LANDS

Summary Table 10.—TYPES OF DRAINAGE WORKS,

State	Levees or dikes						
	Constructed, 1950-1959 (1960 Census)		Constructed, 1940-1949 ² (1950 Census)		Completed prior to Census date (miles)		
	Projects reporting	Miles	Projects reporting	Miles	1940 Census	1930 Census	1920 Census
All drainage States.....	322	2,016.9	152	1,020	6,792.9	6,539.5	3,509.8
10 "county-drain" States.....	16	17.6	36	55	622.4	429.9	263.5
30 "drainage-district" States.....	306	1,999.3	146	965	6,170.5	6,109.6	3,246.3
17 irrigation States.....	254	1,789.6	134	925	4,088.1	3,770.3	2,049.0
13 other States.....	52	209.7	12	40	2,082.4	2,339.3	1,197.3
Alabama.....	...	...	...	...	...	...	...
Arizona.....	...	...	...	...	24.5	2.5	26.0
Arkansas.....	9	27.8	4	15	332.4	201.9	121.8
California.....	50	227.4	...	...	1,537.6	1,389.5	1,131.1
Colorado.....	...	...	1	3	...	...	...
Delaware.....	...	...	...	...	...	...	...
Florida.....	119	1,198.1	97	663	470.7	718.4	66.2
Georgia.....	...	...	...	...	5.0	...	...
Idaho.....	5	8.6	4	8	95.4	74.8	9.5
Illinois.....	24	115.2	5	19	1,157.8	1,108.4	650.2
Indiana.....	2	0.3	32	20	139.0	131.9	165.8
Iowa.....	6	6.5	34	35	456.8	113.4	45.2
Kansas.....	13	33.4	7	58	278.3	227.0	165.1
Kentucky.....	34	215.2	12	166	624.4	576.3	440.7
Louisiana.....	...	...	...	...	...	...	...
Maryland.....	...	...	...	...	...	...	...
Michigan.....	2	4.7	...	...	13.6	34.6	33.1
Minnesota.....	2	0.4	...	...	0.4	149.7	0.1
Mississippi.....	3	3.3	...	...	190.5	227.7	6.7
Missouri.....	13	42.6	4	17	687.1	931.4	456.9
Montana.....	...	...	...	...	0.8	...	...
Nebraska.....	...	...	1	1	230.3	116.8	26.8
Nevada.....	...	...	...	...	23.0	33.0	...
New Jersey.....	...	...	...	...	...	...	...
New Mexico.....	...	...	...	...	181.3	12.0	...
New York.....	1	5.5	1	2	...	...	...
North Carolina.....	3	20.7	1	1	4.0	22.0	33.5
North Dakota.....	1	3.5	...	...	...	...	2.1
Ohio.....	...	...	...	...	5.2	0.3	9.6
Oklahoma.....	3	2.2	...	...	...	...	5.0
Oregon.....	9	43.7	2	4	143.2	121.4	...
South Carolina.....	3	10.4	1	1	...	11.0	...
South Dakota.....	...	...	...	...	7.4	...	2.4
Tennessee.....	...	...	...	...	30.0	29.8	42.3
Texas.....	4	4.7	2	9	61.7	215.9	59.8
Utah.....	...	...	...	...	5.0	2.0	2.0
Virginia.....	...	...	...	...	...	...	...
Washington.....	11	30.7	4	4	72.4	78.8	...
Wisconsin.....	5	12.0	...	...	8.0	9.0	7.7
Wyoming.....	...	...	...	...	7.2	...	...

Italics indicate States identified in 1950 as "county-drain" States. The other States were designated "drainage-district" States. For the "county-drain" States in 1950 all drainage projects in each county were enumerated as a unit. See text.

Boldface indicates States, other than "county-drain," for which the 1950 drainage data included drained lands in "irrigation enterprises" enumerated in the Census of Irrigation. See text.

NA Not available.

¹Floodgates, culverts, bridges, drainage wells or pumps, land leveling, etc.

²For 1950 Census, data for drainage works not available for 9,076 projects and 4,119,059 acres of drained land in "irrigation enterprises" enumerated in Census of Irrigation; data for pumps not available for "county-drain" States. See text.

³For 1950, for "county-drain" States, count of projects reporting represents counties reporting—in that year all drains in each county were enumerated as a unit. See text.

⁴Data for this and other designated States not available individually but included in totals for all drainage States.

BY STATES: CENSUSES OF 1920 TO 1960—Continued

State	Pumps										Other drainage works ¹ constructed or installed, 1950-1959, projects reporting (1960 Census)
	Installed, 1950-1959 (1960 Census)		Installed prior to Census date								
			Projects reporting				Number of pumps				
	Projects reporting	Number	1950 Census ²	1940 Census	1930 Census	1920 Census	1950 Census ²	1940 Census	1930 Census	1920 Census	
All drainage States.....	357	957	NA	353	292	210	NA	1,284	1,028	453	264
10 "county-drain" States.....	12	20	NA	18	20	17	NA	28	37	NA	69
30 "drainage-district" States.....	345	937	369	335	272	193	1,146	1,256	991	NA	195
17 irrigation States.....	301	866	314	253	195	NA	1,015	NA	841	NA	124
13 other States.....	44	71	55	82	77	NA	131	NA	150	NA	71
Alabama.....	...	...	...	...	...	...	...	...	...	(*)	...
Arizona.....	...	...	...	2	2	1	...	33	175	...	...
Arkansas.....	3	4	2	2	2	...	...	5	5	...	...
California.....	74	162	120	135	105	94	382	763	426	(*)	42
Colorado.....	1	1	...	1	...	...	...	4	...	...	1
Delaware.....	...	...	NA	...	...	...	NA	...	...	...	...
Florida.....	139	548	99	14	12	2	354	68	37	(*)	28
Georgia.....	...	...	...	1	1	...	...	(*)	4	...	...
Idaho.....	11	18	21	26	23	4	54	73	37	6	1
Illinois.....	30	45	47	68	60	48	115	125	120	(*)	50
Indiana.....	1	1	NA	4	4	4	NA	5	7	(*)	36
Iowa.....	2	2	NA	11	11	6	NA	18	21	(*)	19
Kansas.....	...	...	...	2	1	1	...	4	2	(*)	2
Kentucky.....	...	...	NA	...	...	...	NA	...	...	...	...
Louisiana.....	45	91	30	22	18	29	102	59	52	71	16
Maryland.....	...	...	...	...	...	...	...	...	...	...	...
Michigan.....	7	15	NA	2	2	3	NA	2	3	(*)	4
Minnesota.....	2	2	NA	1	2	...	NA	3	5	...	2
Mississippi.....	1	3	...	1	3	1	...	(*)	5	(*)	4
Missouri.....	3	5	8	11	11	8	16	16	16	14	8
Montana.....	...	...	...	...	...	...	...	...	...	...	1
Nebraska.....	...	...	...	1	1	...	...	3	3	...	4
Nevada.....	1	4	...	1	1	...	...	3	2	...	...
New Jersey.....	...	...	...	...	...	...	...	...	...	...	...
New Mexico.....	...	...	...	...	...	...	...	...	...	...	...
New York.....	1	2	...	...	...	...	...	...	...	...	1
North Carolina.....	3	7	...	...	1	1	...	...	4	(*)	5
North Dakota.....	...	...	NA	...	...	...	NA	...	...	...	2
Ohio.....	...	...	NA	...	1	4	NA	...	1	(*)	6
Oklahoma.....	...	...	NA	...	...	...	NA	...	...	...	...
Oregon.....	9	16	23	26	17	...	70	56	31	...	7
South Carolina.....	1	1	...	...	...	(*)	...	...	...	(*)	...
South Dakota.....	...	...	NA	...	...	...	NA	...	...	...	...
Tennessee.....	...	...	...	...	...	...	...	...	...	...	...
Texas.....	5	5	4	4	2	...	5	11	53	...	4
Utah.....	...	...	...	...	...	(*)	...	...	...	(*)	...
Virginia.....	...	...	...	...	...	...	...	...	...	...	2
Washington.....	13	17	15	16	11	...	43	24	18	...	18
Wisconsin.....	5	8	...	1	1	1	...	(*)	1	(*)	1
Wyoming.....	...	...	...	1	...	...	...	(*)	...	...	...

DRAINAGE OF AGRICULTURAL LANDS

Summary Table 11.—DRAINAGE PROJECTS BY

State		All drainage projects ¹					Under 500 acres ²			
		1960	1950	1940 ³	1930 ³	1920 ³	1950 ⁴	1940 ³	1930 ³	1920 ³
1	All drainage States.....number.....	8,461	14,533	79,220	67,927	47,399	8,289	21,690	31,056	22,205
2	.....acres.....	99,098,430	106,650,847	132,828,451	128,495,076	95,629,291	606,031	9,065,810	7,348,844	6,374,640
3	10 "county-drain States".....number.....	61,397	6,597	72,993	62,391	44,172	613	40,842	30,489	21,798
4	.....acres.....	651,909,639	652,033,141	87,621,164	86,850,923	71,972,075	61,760	8,820,957	7,186,355	6,263,133
5	30 "drainage-district" States.....number.....	7,064	14,076	6,227	5,236	3,227	78,276	848	567	407
6	.....acres.....	47,188,791	54,617,706	45,207,287	41,644,155	23,697,216	7604,271	244,835	162,489	111,507
7	17 irrigation States.....number.....	3,157	10,862	2,140	2,119	905	8,276	120	93	41
8	.....acres.....	30,596,286	38,577,765	28,933,880	26,139,653	12,941,093	604,271	34,474	26,757	13,375
9	Alabama.....number.....	11	10	2	...	...	...	...	...	...
10	.....acres.....	65,901	76,671	28,045	...	...	...	...	...	...
11	Arizona.....number.....	...	25	5	7	3	17	...	...	...
12	.....acres.....	...	197,268	300,907	318,931	39,640	2,359	...	...	...
13	Arkansas.....number.....	...	98	844	316	560	...	...	...	...
14	.....acres.....	5,765,338	5,330,609	5,633,299	5,764,808	3,842,812	83,548	1,369	1,148	1,140
15	California.....number.....	356	2,047	188	162	144	1,659	9	4	5
16	.....acres.....	2,019,547	2,554,576	2,755,757	2,294,068	1,108,319	152,728	2,609	1,816	1,677
17	Colorado.....number.....	16	630	67	98	24	491	2	2	...
18	.....acres.....	55,496	625,056	469,294	367,359	171,656	43,649	812	902	...
19	Delaware.....number.....	640	62	640	...	...	...	275	...	...
20	.....acres.....	6341,522	6352,547	853,562	...	...	...	76,337	...	...
21	Florida.....number.....	516	1,889	126	146	94	1,588	4	2	...
22	.....acres.....	6,348,491	7,187,025	6,463,446	7,373,627	1,759,941	61,246	1,505	824	...
23	Georgia.....number.....	52	35	78	46	28	...	28	11	...
24	.....acres.....	101,834	96,259	84,374	84,255	65,452	...	7,919	2,708	3,252
25	Idaho.....number.....	33	379	57	50	13	284	5	4	...
26	.....acres.....	110,982	436,171	674,532	375,464	64,642	24,271	1,061	562	...
27	Illinois.....number.....	1,436	1,433	2,080	1,919	1,365	...	287	234	...
28	.....acres.....	5,883,070	5,670,788	5,897,124	5,741,316	4,090,599	...	86,593	73,697	54,507
29	Indiana.....number.....	6292	679	22,963	18,339	11,348	...	15,156	9,872	5,680
30	.....acres.....	611,267,799	611,017,709	19,972,325	23,049,787	15,015,221	...	2,843,561	2,187,441	1,474,777
31	Iowa.....number.....	629	686	3,804	3,730	2,883	61	1,285	1,207	918
32	.....acres.....	67,063,570	6,734,863	7,544,931	7,397,644	5,905,743	610	344,033	321,198	254,035
33	Kansas.....number.....	103	121	92	88	54	37	10	13	17
34	.....acres.....	377,983	363,341	258,946	257,726	93,856	1,899	3,147	4,407	4,994
35	Kentucky.....number.....	628	618	193	216	179	61	50	29	61
36	.....acres.....	8990,799	6959,892	515,617	626,408	358,480	6384	15,727	8,331	18,188
37	Louisiana.....number.....	915	922	661	741	111	486	1	...	...
38	.....acres.....	8,457,799	12,671,652	4,703,474	4,093,113	2,342,034	30,356	462	...	...
39	Maryland.....number.....	138	93	131	...	...	...	35	...	...
40	.....acres.....	396,786	365,668	190,922	...	...	...	11,404	...	...
41	Michigan.....number.....	696	654	12,043	10,643	8,583	...	5,723	4,907	3,919
42	.....acres.....	69,900,328	610,194,439	16,070,273	15,032,692	15,766,478	...	1,454,436	1,272,745	1,122,310
43	Minnesota.....number.....	307	82	3,059	2,885	2,340	...	291	486	858
44	.....acres.....	611,045,166	611,269,962	14,702,196	14,681,505	9,974,662	...	90,140	133,983	227,928
45	Mississippi.....number.....	990	441	350	344	167	...	22	6	...
46	.....acres.....	3,354,500	3,312,059	3,126,870	3,159,944	1,604,484	...	7,109	7,359	1,894
47	Missouri.....number.....	425	318	384	367	238	...	17	13	4
48	.....acres.....	3,670,629	3,819,135	4,434,979	4,111,570	3,104,889	...	4,932	4,113	1,235
49	Montana.....number.....	20	404	40	27	17	355	3	2	...
50	.....acres.....	60,112	292,525	374,189	167,629	168,862	24,266	1,275	507	...
51	Nebraska.....number.....	103	473	152	138	123	303	10	10	...
52	.....acres.....	741,004	978,501	1,005,541	893,899	708,450	15,765	2,880	2,704	1,520
53	Nevada.....number.....	2	82	9	7	1	44	1	...	...
54	.....acres.....	41,521	251,154	153,373	162,980	15,940	8,224	400	...	...
55	New Jersey.....number.....	9	5	...	...	...	...	...	...	...
56	.....acres.....	10,956	11,206	...	...	...	...	...	...	...
57	New Mexico.....number.....	5	223	14	...	8	194	...	...	...
58	.....acres.....	31,593	244,961	305,885	176,292	140,219	20,681	...	...	...
59	New York.....number.....	19	14	...	...	...	...	...	...	...
60	.....acres.....	49,616	56,465	...	...	...	...	...	...	...
61	North Carolina.....number.....	564	413	371	130	104	...	100	20	11
62	.....acres.....	1,417,032	1,191,113	899,848	688,436	552,428	...	26,640	5,591	3,117
63	North Dakota.....number.....	61	62	164	152	137	5	...	...	...
64	.....acres.....	61,732,183	61,572,220	1,840,781	1,183,382	1,240,328	165	...	...	...
65	Ohio.....number.....	8,873,857	8,893,262	25,212,061	24,010,629	23,464,812	...	3,985,626	3,278,132	3,154,949
66	.....acres.....	631	618	29	33	5	3	...	...	...
67	Oklahoma.....number.....	6133,796	6300,884	197,646	171,118	12,150	31	...	670	400
68	.....acres.....	110	1,087	66	51	1	995	17	11	...
69	Oregon.....number.....	314,221	418,858	353,915	211,182	4,000	34,389	4,754	2,471	...
70	.....acres.....	123	45	32	31	17	...	1	2	1
71	South Carolina.....number.....	353,916	257,011	204,366	208,249	140,031	64	40	535	40
72	.....acres.....	641	634	223	205	38	...	38	44	34
73	South Dakota.....number.....	6660,590	6707,263	711,572	697,738	234,201	6700	11,095	11,855	10,546
74	.....acres.....	151	151	213	191	95	...	37	28	7
75	Tennessee.....number.....	597,406	620,986	618,172	599,392	363,671	...	11,895	8,791	2,277
76	.....acres.....	243	243	59	87	54	360	1	...	...
77	Texas.....number.....	5,938,974	5,929,617	4,531,170	2,883,356	2,166,128	48,881	260	...	1,957
78	.....acres.....	110	471	37	32	17	386	2	1	...
79	Utah.....number.....	66,910	307,450	204,150	156,052	113,823	24,481	503	190	...
80	.....acres.....	66	30	2	3	...	...	(5)	...	...
81	Virginia.....number.....	101,976	45,460	15,714	15,042	...	...	...	...	...
82	.....acres.....	122	533	182	172	52	374	49	40	8
83	Washington.....number.....	242,482	462,520	433,340	394,851	105,477	14,043	13,112	11,226	1,947
84	.....acres.....	235	206	444	373	290	...	201	143	143
85	Wisconsin.....number.....	588,863	516,484	772,993	895,698	794,560	...	54,047	32,938	31,810
86	.....acres.....	26	189	28	26	15	143	1	...	...
87	Wyoming.....number.....	23,833	326,481	312,662	248,316	95,474	13,685	225	...	140
88	.....acres.....	...	...	...	...	...	...	...	...	...

See footnotes at end of table.

SIZE, BY STATES: CENSUSES OF 1920 TO 1920

500 to 999 acres					1,000 to 4,999 acres														
					Total					1,000 to 1,999 acres					2,000 to 4,999 acres				
1960	1950	1940 ²	1930 ³	1920 ³	1960	1950	1940 ²	1930 ³	1920 ³	1960	1950	1940 ²	1930 ³	1920 ³	1960	1950	1940 ²	1930 ³	1920 ³
2,847	1,593	15,855	15,765	10,717	3,469	2,797	517,213	16,767	11,757	2,081	1,412	10,467	1,588	1,345	76,746	1	2	6,746	1
1,950,621	1,103,139	11,234,727	11,130,096	9,091,516	7,764,699	6,201,930	35,069,097	34,074,009	29,522,536	2,881,301	1,983,206	14,538,019	4,883,398	4,218,724	20,511,078	2	3	20,511,078	2
687	65	14,499	14,472	10,197	6,622	422	14,727	14,585	10,401	6306	614	9,242	6156	628	5,485	3	4	5,485	3
638,289	63,690	10,280,792	10,219,725	8,722,780	6,904,649	6,120,211	29,382,117	29,075,041	26,338,669	6,221,827	6,201,501	12,833,823	6,482,822	6,99,709	16,545,294	4	5	16,545,294	4
2,360	71,588	1,356	1,293	515	3,207	2,715	2,486	2,182	1,356	1,775	71,588	1,225	1,432	71,317	1,261	5	6	71,317	5
1,622,132	71,099,449	953,935	910,371	368,736	6,860,500	7,081,720	5,686,980	4,998,968	3,183,867	2,459,474	71,099,449	1,724,196	4,400,576	4,400,576	14,119,015	6	7	14,119,015	6
1,096	753	500	616	95	1,282	1,045	707	655	306	749	599	330	533	486	377	7	8	486	7
754,239	521,490	345,711	421,736	65,106	2,655,531	2,324,990	1,644,869	1,491,159	769,484	1,023,937	781,859	455,958	1,631,594	1,542,731	1,188,911	8	9	1,188,911	8
6	4	...	...	...	3	3	...	...	...	...	...	...	...	3	3	9	10	3	9
3,749	2,199	...	...	...	11,771	12,051	...	...	...	...	...	...	...	11,771	12,051	...	11	11	...
...
...	610	...	640	640	...	3,385	5,699	5,691	...	...	3,385	3,385	...	...	...	...	...	...	...
230	37	19	17	5	185	68	93	91	39	109	25	30	76	43	63	13	13	63	13
150,233	24,159	14,523	12,060	3,669	383,612	169,293	238,621	235,900	103,001	30,065	30,084	238,843	136,238	191,577	50	15	191,577	50	
104	129	14	15	15	151	164	69	69	60	76	81	28	75	83	50	15	50	83	15
71,294	87,405	9,928	10,359	10,059	332,349	368,156	200,131	178,776	155,747	101,939	109,470	40,137	230,410	258,686	159,594	16	16	258,686	16
4	48	13	9	5	8	64	28	25	11	4	32	9	4	32	19	17	4	32	19
2,892	32,883	9,154	5,986	3,396	17,394	144,573	68,815	59,784	21,260	5,930	46,213	12,415	11,464	98,360	56,400	18	18	98,360	18
618	(6)	137	...	...	638	(6)	201	...	...	624	(6)	128	614	(6)	73	19	614	(6)	73
11,961	(6)	97,758	...	...	83,396	(6)	403,065	...	...	831,948	(6)	183,183	81,448	(6)	219,882	31	219,882	(6)	31
148	5	...	...	...	216	36	22	109	29	5	14	107	22	21	21	21	21	21	21
101,911	59,903	2,510	2,980	3,370	488,077	273,122	93,942	101,486	63,157	147,268	93,103	20,060	340,809	178,019	73,882	22	73,882	22	22
21	24	31	22	16	28	28	17	23	14	18	21	10	10	7	23	23	7	23	23
14,172	18,158	22,399	15,704	11,750	55,146	52,790	36,525	40,043	25,205	26,533	31,946	15,822	28,613	20,844	20,703	24	20,844	24	24
11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8,075	22,646	9,517	5,632	2,472	42,870	119,375	61,296	60,005	15,210	12,214	30,870	6,367	30,656	88,505	54,926	26	88,505	54	26
313	278	463	441	290	873	849	1,038	942	675	438	415	529	435	434	509	27	435	434	27
228,468	201,239	330,937	320,566	210,371	2,014,534	1,944,745	2,345,828	2,160,720	1,547,003	633,572	586,223	747,792	1,380,782	1,558,522	1,598,036	28	1,598,036	28	28
610	61	3,793	4,117	2,812	687	645	3,254	3,645	2,465	659	61	2,171	628	64	1,083	29	628	64	29
60,373	6768	2,806,651	2,896,966	2,098,534	6,160,230	6,189,895	7,256,727	5,017,315	677,882	6,1229	2,969,206	682,548	617,101	3,220,689	30	30	617,101	30	30
661	21	917	927	704	887	811	1,286	1,290	1,010	641	64	754	696	64	532	31	696	64	31
40,868	650,436	663,537	500,458	187,921	627,807	2,645,729	2,639,362	2,065,762	672,690	67,039	1,051,108	611,251	60,948	1,594,621	32	60,948	1,594,621	32	32
36	16	23	21	16	47	42	10	23	14	23	24	34	17	16	33	33	17	16	33
20,036	11,837	16,783	15,227	11,944	105,032	90,238	80,945	78,425	33,086	34,597	36,970	34,216	70,425	53,268	46,729	34	53,268	46	34
67	(6)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
64,566	(6)	27,088	36,505	23,143	61,083	65,933	176,366	202,922	130,176	68,683	65,933	56,749	62,000	(6)	119,617	37	62,000	(6)	37
373	167	327	454	4	397	160	173	146	25	271	106	105	126	54	68	37	105	126	37
261,601	115,042	219,183	309,076	2,269	734,737	310,669	348,202	258,698	64,063	373,294	143,618	137,499	361,443	167,051	210,703	38	361,443	167,051	38
45	19	34	...	...	77	58	...	...	...	...	36	22	28	41	36	39	36	22	39
31,330	13,826	25,675	...	...	179,308	146,856	128,407	...	...	52,090	36,213	40,662	127,218	110,643	87,745	40	127,218	110,643	40
628	(6)	2,911	2,656	2,133	6	62	2,928	2,631	2,674	65	61	1,863	61	61	1,065	41	61	61	41
18,013	(6)	2,073,240	1,866,876	1,849,136	6,11,285	6,340	5,823,795	5,193,743	7,002,624	67,085	6,1820	2,601,894	4,200	6,4520	3,221,981	42	4,200	6,4520	42
1316	517	61	546	437	61	61	1,225	610	676	61	61	61	61	61	61	43	61	61	43
676,273	(6)	386,722	356,396	307,812	61,260	3,532,795	2,828,230	1,385,737	6105,305	61,260	1,084,817	695,505	(6)	2,447,978	44	695,505	(6)	2,447,978	44
222	135	25	28	13	236	173	156	143	84	122	84	67	114	89	89	45	67	114	89
149,764	91,316	18,630	19,705	9,789	508,014	393,698	392,968	347,762	201,240	161,486	118,377	94,085	346,550	275,121	298,883	46	346,550	275,121	46
99	26	...	...	...	153	157	163	149	85	53	55	106	104	108	47	53	106	104	47
65,228	20,759	28,045	28,667	13,154	449,874	410,708	412,987	373,337	239,414	118,155	81,053	82,679	331,669	329,655	330,308	48	329,655	330,308	48
11	11	7	6	2	7	25	19	13	10	4	13	12	3	12	7	49	3	12	49
9,051	7,380	5,336	4,093	1,307	15,591	56,160	39,412	34,157	23,711	4,921	16,828	17,267	10,670	39,332	22,145	50	39,332	22,145	50
14	29	17	22	46	88	75	58	63	18	38	28	28	50	47	51	51	28	47	51
9,684	21,045	12,894	15,649	14,570	117,454	222,490	188,656	139,639	173,192	27,781	56,581	42,039	89,673	165,909	146,617	52	89,673	165,909	52
...	10	1	...	...	...	1	19	2	...	...	10	1	9	2	53	53	1	10	53
...	6,917	600	...	...	2,500	38,169	6,940	7,740	...	...	15,028	...	2,500	2,314	6,940	54	...	...	54
5	1	...	...	...	7,556	10,456	...	...	...	2	1	...	4,956	2,356	...	55	...	...	55
3,400	750	...	...	...	1	8	2	...	...	2,600	1,200	...	...	...	...	56	...	...	56
1	12	...	...	...	...	...	...	...	...	...	...	...	...	...	...	57	...	...	57
600	8,347	...	...	...	1,000	15,818	8,267	8,740	...	1,000	7,300	...	...	8,518	8,267	58	...	...	58
14	8	...	...	...	2	...	...	...	...	2,352	2,300	...	...	...	...	59	...	...	59
8,871	4,877	...	...	...	2,300	161	...	52	...	44	134	106	81	72	55	60	...	...	60
9,051	304	111	26	20	20	62	...	...	...	...	...	...	...	...	...	61	...	...	61
202,778	132,493	72,318	17,924	15,928	368,615	293													

Summary Table 11.—DRAINAGE PROJECTS BY SIZE

State		10,000 to 49,999 acres									
		5,000 to 9,999 acres					Total				
		1960	1950	1940 ³	1930 ³	1920 ³	1960	1950	1940 ³	1930 ³	1920 ³
1	All drainage States.....	728	699	2,357	2,291	1,472	819	818	5,884	1,814	1,107
2	acres.....	5,081,845	4,754,671	16,387,515	15,865,002	13,357,936	16,758,378	17,098,296	536,721,074	35,075,951	23,826,149
3	10 "county-drain" States.....	463	628	1,708	1,640	1,064	612	611	1,137	1,105	656
4	acres.....	450,885	621,942	11,844,751	11,380,140	10,537,223	6,168,131	52,980,590	20,876,066	20,306,960	14,402,437
5	30 "drainage-district" States.....	665	761	649	651	408	687	703	747	709	451
6	acres.....	4,630,960	74,538,729	4,542,720	4,484,862	2,820,328	13,590,247	714,117,787	15,847,008	14,768,991	9,423,712
7	17 irrigation States.....	300	291	272	259	153	267	386	331	367	263
8	acres.....	2,132,948	2,037,649	1,922,304	1,819,937	1,069,961	7,630,247	8,128,968	9,606,659	8,709,736	5,278,049
9	Alabama.....	...	...	...	...	...	...	2	2	...	...
10	acres.....	...	7,540	...	...	...	50,881	54,881	28,045	...	...
11	Arizona.....	...	1	...	...	1	...	3	(²)	1	1
12	acres.....	...	5,000	...	...	9,000	...	75,914	(²)	20,600	30,000
13	Arkansas.....	60	70	67	39	99	...	110	112	111	68
14	California.....	439,295	341,529	523,848	493,382	274,227	2,164,973	2,321,290	2,420,960	2,414,091	1,473,391
15	acres.....	56	48	34	32	30	36	34	44	34	33
16	Colorado.....	381,682	326,785	232,307	220,410	203,655	619,410	674,625	925,127	707,309	672,181
17	acres.....	35,210	81,865	75,300	73,941	26,000	...	269,086	205,969	226,746	71,000
18	Delaware.....	81	(¹)	14	...	...	81	(⁶)	13	...	...
19	acres.....	6,346	(¹)	83,616	...	...	611,700	(⁶)	192,786	...	...
20	Florida.....	66	35	23	28	18	69	44	39	46	30
21	acres.....	473,168	242,882	156,326	187,251	114,436	1,383,240	973,293	849,321	1,017,982	694,045
22	Georgia.....	...	2	...	2	1	...	...	...	...	1
23	acres.....	9,846	15,046	17,531	15,800	15,245	22,690	10,265	(²)	10,000	10,000
24	Idaho.....	2	8	7	6	1	2	6	8	6	2
25	acres.....	11,982	60,393	52,215	60,261	6,960	48,409	155,906	62,296	181,947	40,000
26	Illinois.....	152	179	196	203	144	125	125	95	98	74
27	acres.....	1,240,267	1,231,412	1,342,317	1,360,351	976,666	2,113,490	1,692,968	1,728,101	1,239,719	...
28	Indiana.....	612	63	341	397	229	616	612	217	274	144
29	acres.....	85,208	25,216	2,362,676	2,727,803	1,718,075	6,374,621	6,300,891	4,036,299	5,088,605	2,917,817
30	Iowa.....	419	17	186	185	124	612	631	431	324	167
31	acres.....	140,346	69,155	1,280,660	1,295,465	1,005,124	962,368	6,711,112	2,169,973	2,054,594	1,895,497
32	Kansas.....	22	17	12	11	3	8	10	7	4	2
33	acres.....	155,065	125,555	73,361	74,962	22,792	97,870	133,812	84,710	84,705	21,040
34	Kentucky.....	62	18	19	12	7	13	13	35	13	7
35	acres.....	14,400	130,760	122,746	79,592	82,562	68,567	56,871	58,000	200,998	107,381
36	Louisiana.....	28	18	40	37	22	79	59	103	90	47
37	acres.....	203,467	135,853	291,267	259,448	159,161	1,711,637	1,203,875	2,260,132	2,044,093	1,037,196
38	Maryland.....	13	13	4	...	...	2	2	...	...	...
39	acres.....	89,165	90,165	25,636	...	...	33,541	33,541	...	...	...
40	Michigan.....	...	...	294	...	...	117	179	...	...	...
41	acres.....	62,096	67,930	1,951,233	1,743,097	3,251,318	6,215,382	6,283,436	3,110,113	3,281,204	1,072,885
42	Minnesota.....	65	63	357	335	177	625	624	325	306	234
43	acres.....	66,520	62,936	2,519,891	2,388,231	1,250,804	6,713,965	6,728,576	6,339,013	5,968,444	4,630,934
44	Mississippi.....	63	36	67	67	36	72	72	78	74	35
45	acres.....	361,648	394,409	429,877	462,954	157,416	1,292,852	1,270,559	1,558,578	1,558,578	664,285
46	Missouri.....	50	52	54	64	48	72	72	95	85	61
47	acres.....	345,052	367,628	385,082	450,062	341,884	1,450,651	1,473,791	2,091,597	1,721,812	1,597,927
48	Montana.....	...	7	3	2	3	9	9	4	...	...
49	acres.....	...	47,728	20,059	11,792	19,664	35,470	79,991	188,628	117,080	24,000
50	Nebraska.....	26	30	25	22	15	20	20	21	21	14
51	acres.....	187,135	214,581	168,646	149,998	115,106	259,365	332,455	458,594	413,263	275,562
52	Nevada.....	...	4	1	...	...	...	...	...	...	...
53	acres.....	...	21,650	7,551	...	...	39,021	125,595	60,598	77,996	15,940
54	New Jersey.....	...	...	...	...	...	...	...	...	...	...
55	acres.....	...	...	...	...	...	...	...	...	...	...
56	New Mexico.....	2	5	4	4	4	...	...	...	...	...
57	acres.....	15,018	37,196	37,590	29,450	34,579	14,975	30,655	163,018	54,102	31,640
58	New York.....	1	1	...	...	...	2	3	...	...	...
59	acres.....	8,500	8,500	...	...	...	29,894	40,838	...	...	...
60	North Carolina.....	28	19	12	11	23	21	21	20	19	14
61	acres.....	190,996	130,256	132,000	81,272	71,717	465,198	445,924	387,725	365,742	265,640
62	North Dakota.....	69	92	53	53	51	63	64	63	32	32
63	acres.....	663,648	612,504	302,855	394,682	358,390	6105,404	693,864	1,205,806	479,500	501,377
64	Ohio.....	61	61	373	300	300	614	615	201	175	122
65	acres.....	65,536	65,536	3,076,820	2,549,773	2,850,517	6,356,501	6,417,817	3,485,022	2,973,427	3,152,280
66	Oklahoma.....	12	9	10	10	10	5	5	5	5	5
67	acres.....	612,176	65,376	70,393	60,381	6,000	691,808	612,752	84,872	63,491	...
68	Oregon.....	7	7	...	...	...	8	10	8	4	...
69	acres.....	44,865	60,821	55,341	51,451	...	134,053	163,545	180,390	109,511	...
70	South Carolina.....	6	6	8	7	8	8	164,880	7	6	...
71	acres.....	47,249	48,627	56,398	44,628	20,400	465,036	516,710	132,322	40,000	...
72	South Dakota.....	8	8	15	15	3	11	10	9	9	5
73	acres.....	664,809	65,929	97,962	17,788	6,263	190,513	192,513	196,697	124,226	...
74	Tennessee.....	11	17	21	17	13	11	12	16	16	9
75	acres.....	75,379	116,872	147,478	115,598	91,612	177,772	293,772	201,786	236,525	139,666
76	Texas.....	13	14	10	10	14	44	48	48	43	30
77	acres.....	96,652	98,649	71,143	54,662	32,032	1,054,684	1,260,502	1,292,456	1,006,763	746,544
78	Utah.....	...	8	2	3	1	2	6	5	4	3
79	acres.....	...	56,698	11,292	15,545	5,280	56,000	113,640	129,620	85,405	77,690
80	Virginia.....	4	...	...	...	1	...	1	1	...	...
81	acres.....	25,553	...	...	9,538	...	10,248	13,568	13,568	...	...
82	Washington.....	11	16	12	10	3	1	3	2	2	2
83	acres.....	72,372	102,818	85,877	74,317	19,649	11,500	43,790	35,223	47,808	21,900
84	Wisconsin.....	16	14	13	13	11	18	18	16	14	14
85	acres.....	103,960	90,670	84,102	124,722	75,427	90,295	73,310	175,075	306,177	228,426
86	Wyoming.....	3	11	9	9	4	...	8	5	2	2
87	acres.....	17,031	77,916	60,181	63,067	27,400	...	173,134	121,447	100,375	45,920

Italics indicate States identified in 1950 as "county-drain" States. The other States were designated "drainage-district" States. See footnote 6 and text.

Boldface indicates States, other than "county-drain," for which the 1950 drainage data included drained lands in "irrigation enterprises." See footnote 4 and text.

¹Land in two or more projects included in each project. Areas shown equal the sum of areas of individual projects with no deduction for land included in more than one project.

²In 1960, only projects of 500 or more acres were included. See footnote 6 and text.

³For 1940, 1950, and 1960, number refers to the total reports including projects which superseded by later projects. For 1920, data for number of projects, by size of project, were not available from the 1920 report. The counts presented for that year are those carried in the 1940 report (see Summary Table 6) and differ from the total count of projects reported in 1920.

⁴For 1950, projects under 500 acres include "irrigation enterprises" with drainage enumerated in the Census of Irrigation (see Summary Table 12) and 3 "county-drain" counties representing portions of intercounty drains (see footnote 6). The enumeration for the 1950 Census of Drainage included only drainage projects of 500 or more acres.

Revised.

10,000 to 49,999 acres—Continued				50,000 to 99,999 acres												100,000 or more acres													
10,000 to 19,999 acres			20,000 to 49,999 acres																										
1960	1950	1940 ²	1960	1950	1940 ²	1960	1950	1940 ²	1960	1950	1940 ²	1930 ³	1920 ³	1910	1960	1950	1940 ²	1930 ³	1920 ³										
499	484	1,228	320	334	566	152	145	519	168	115	246	252	66	31	2	1	2	1	2										
6,963,107	6,781,099	16,964,180	9,795,271	10,317,197	19,756,894	10,630,513	10,254,850	10,760,472	11,403,982	8,605,536	56,912,374	66,631,930	13,589,796	13,597,194	4,850,978														
68	61	800	664	664	337	62	57	61	76	42	191	197	19	24	14	3	4	3	4										
989,540	7,747,671	10,922,231	62,178,591	62,232,834	9,951,835	64,131,676	3,944,427	5,099,727	3,725,087			44,579,354	2,474,010	3,582,975	1,982,361	17	6	17	6										
5,973,567	76,033,424	6,041,949	76,616,680	78,084,363	9,805,059	6,091,412	76,123,174	6,816,045	6,304,255	4,880,449	14,393,790	72,032,576	11,115,746	10,014,219	2,868,617														
212	219	226	212	219	226	212	219	226	212	219	226	212	219	226	212	219	226	212	219										
2,961,427	3,040,507	3,206,106	4,668,820	5,089,461	6,400,555	4,124,687	4,272,415	4,910,900	4,498,792	3,631,023	13,308,634	20,688,382	10,468,963	9,171,556	2,114,095														
...	...	2	...	2										
...	...	28,045	50,881	54,881										
...	...	2										
...	28,424	47,490	52,378	50,000										
...	63	66	...	47	12	16										
776,548	890,690	975,512	1,388,425	1,430,600	1,445,448	778,208	933,322	1,087,472	1,228,710	1,162,120	1,849,017	1,457,428	1,346,506	1,379,517	825,264	14	15	14	15										
27	20	26	9	14	18	8	12	5	4	1	1	1	1	1	1	1	1	1	1										
385,170	259,547	353,899	234,240	415,078	571,228	477,966	740,077	401,973	285,542	65,000	136,846	204,800	983,682	889,856											
...	9	9										
...	138,831	113,483	...	130,255	90,486										
61	(6)	11	(6)	(6)										
611,700	(6)	135,532	...	(6)	57,254										
38	22	22	31	22	17	13	7	13	7	10	4	10	4	11	15	2	2	15	2										
531,642	303,173	319,224	851,598	668,120	530,997	909,054	505,069	709,654	732,777	604,912	2,993,041	5,075,510	4,650,388	5,330,327	280,000	23	21	23	21										
22,690	10,265																							

⁹As shown for 1920 in the 1940 report. See footnote 3.

DRAINAGE OF AGRICULTURAL LANDS

Summary Table 12.—DRAINAGE PROJECTS BY TYPE OF

State		All drainage projects					Drains owned by one landowner ¹				
		1960 ²	1950 ³	1940 ³	1930 ³	1920 ³	1960 ²	1950 ³	1940 ³	1930 ³	1920 ³
1	All drainage States.....	number... 8,461	14,533	39,597	87,927	56,949	1,817	551	NA	NA	NA
2	.....	acres... 99,098,430	102,688,331	86,967,039	84,408,093	65,495,038	4,162,544	1,382,830	985,046	854,880	642,018
3	10 "county-drain" States.....	number... 1,397	457	34,596	62,391	52,962	79	(6)	NA	NA	NA
4	.....	acres... 51,909,639	52,033,141	47,094,801	47,720,374	43,213,765	90,943	(6)	101,226	70,223	NA
5	30 "drainage-district" States.....	number... 7,064	14,076	5,001	5,536	3,228	1,738	551	NA	NA	NA
6	.....	acres... 47,188,791	50,665,190	39,872,238	36,687,719	22,281,273	4,071,601	1,382,830	883,820	784,657	NA
7	17 irrigation States.....	number... 3,187	10,562	2,119	2,119	1,391	1,391	427	NA	NA	NA
8	.....	acres... 30,996,286	35,995,203	26,998,986	23,043,464	12,268,025	3,603,074	1,155,977	708,103	680,504	NA
9	Alabama.....	number... 11	10	1	...	...	...	...	...	...	...
10	.....	acres... 65,901	76,671	28,045	...	...	500	...	...	...	...
11	Arizona.....	number... 25	25	7	...	...	...	...	...	...	...
12	.....	acres... 197,468	298,663	318,931	39,640	...	388	...	...	...	...
13	Arkansas.....	number... 598	844	250	316	174	167	15	NA	NA	NA
14	.....	acres... 5,765,338	4,701,095	4,592,738	4,631,155	3,479,591	236,104	67,790	84,398	40,660	26,900
15	California.....	number... 356	2,047	158	162	145	157	48	NA	NA	NA
16	.....	acres... 2,019,547	2,554,976	2,667,194	2,233,714	1,108,319	311,903	177,321	89,885	50,384	147,678
17	Colorado.....	number... 16	630	56	98	24	3	8	NA	NA	NA
18	.....	acres... 55,496	623,976	468,322	366,719	171,656	2,638	21,421	25,291	17,351	33,630
19	Delaware.....	number... 60	2	287	...	...	...	(6)	...	...	...
20	.....	acres... 341,522	352,547	395,014	...	...	...	...	...	...	...
21	Florida.....	number... 516	1,889	101	146	94	388	122	NA	NA	NA
22	.....	acres... 6,348,491	6,083,676	5,699,022	5,954,934	1,637,073	1,836,408	385,291	22,640	105,533	118,890
23	Georgia.....	number... 52	55	52	59	46	11	10	NA	NA	1
24	.....	acres... 101,854	96,259	84,374	84,255	65,452	12,847	9,569	3,700	9,000	110,000
25	Idaho.....	number... 33	379	50	50	33	5	...	NA	NA	NA
26	.....	acres... 110,932	436,171	659,136	375,464	64,642	4,074	3,210	2,492	1,850	560
27	Illinois.....	number... 1,496	1,433	1,695	1,919	1,365	39	16	NA	NA	NA
28	.....	acres... 5,883,070	5,370,825	5,091,364	5,032,682	3,909,049	78,679	27,449	30,822	15,722	17,542
29	Indiana.....	number... 292	79	8,893	18,339	12,004	18	(6)	NA	NA	NA
30	.....	acres... 11,267,848	11,017,709	10,121,952	10,214,014	9,087,183	22,765	1,000	1,000	15,726	5,623
31	Iowa.....	number... 86	86	2,498	2,730	2,883	25	...	NA	NA	NA
32	.....	acres... 7,063,570	6,734,863	6,164,344	6,137,649	5,224,478	11,428	(6)	53,786	21,537	12,795
33	Kansas.....	number... 103	121	88	88	5	...	...	NA	NA	NA
34	.....	acres... 377,983	356,988	298,113	297,169	93,856	3,660	7,754	5,930	2,200	2,200
35	Kentucky.....	number... 28	18	144	216	179	1	(6)	NA	NA	NA
36	.....	acres... 890,799	959,892	465,270	585,625	338,480	2,000	3,150	3,500	6,400	6,400
37	Louisiana.....	number... 915	922	495	741	111	526	199	NA	NA	NA
38	.....	acres... 8,457,799	12,161,665	4,219,624	3,653,483	2,866,328	810,903	344,239	412,303	402,496	36,463
39	Maryland.....	number... 138	93	126	...	...	...	...	...	...	...
40	.....	acres... 396,786	323,815	183,137	...	...	...	...	...	...	...
41	Michigan.....	number... 86	54	7,692	10,640	10,453	11	(6)	NA	NA	NA
42	.....	acres... 9,900,328	10,194,439	8,978,386	9,180,851	9,729,171	7,454	(6)	7,560	21,530	22,280
43	Minnesota.....	number... 377	82	2,498	2,498	2,340	25	...	NA	NA	NA
44	.....	acres... 11,045,146	11,269,960	10,990,029	11,476,683	9,232,709	24,930	(6)	35,730	1,800	NA
45	Mississippi.....	number... 590	441	271	344	167	121	65	NA	NA	NA
46	.....	acres... 3,354,500	2,890,618	2,988,496	1,601,444	155,590	111,253	50,155	27,400	56,750	NA
47	Missouri.....	number... 3,670,629	3,147,484	3,087,063	3,150,022	2,596,204	42,154	4,250	5,600	9,955	9,896
48	Montana.....	number... 20	404	34	27	17	1	2	NA	NA	NA
49	.....	acres... 60,112	289,189	372,661	167,629	168,682	640	3,260	7,000	8,100	13,650
50	Nebraska.....	number... 103	473	125	138	123	...	...	...	...	...
51	.....	acres... 741,004	821,088	916,181	879,459	607,730	...	...	3,080	7,270	NA
52	Nevada.....	number... 2	82	8	7	1	...	...	NA	NA	NA
53	.....	acres... 41,521	251,154	153,373	162,980	15,940	...	...	2,600	...	(7)
54	New Jersey.....	number... 9	5	...	...	...	...	...	...	...	...
55	.....	acres... 10,996	11,206	...	...	...	...	...	...	...	...
56	New Mexico.....	number... 5	223	7	11	8	...	...	...	...	...
57	.....	acres... 31,393	244,961	305,885	176,292	140,219	600	...	...	...	(7)
58	New York.....	number... 19	14	...	...	...	2	5	...	...	...
59	.....	acres... 49,616	56,465	...	...	...	1,300	2,638	...	...	...
60	North Carolina.....	number... 564	413	246	130	104	39	24	NA	NA	NA
61	.....	acres... 1,417,032	1,128,509	825,976	679,236	542,823	65,426	16,342	58,700	17,370	59,851
62	North Dakota.....	number... 161	21	141	152	137	...	(6)	...	...	...
63	.....	acres... 1,732,183	1,572,220	1,376,041	1,094,142	1,240,328	...	(6)	...	...	...
64	Ohio.....	number... 142	63	11,530	26,191	24,871	...	(6)	...	...	...
65	.....	acres... 8,879,897	8,923,362	7,729,287	8,165,494	8,107,204	2,424	...	...	7,736	NA
66	Oklahoma.....	number... 31	18	29	33	5	11	(6)	...	NA	NA
67	.....	acres... 133,796	300,884	197,466	170,128	12,150	9,942	(6)	...	4,110	(7)
68	Oregon.....	number... 110	1,087	63	51	1	...	2	NA	NA	NA
69	.....	acres... 314,221	418,858	348,825	211,182	4	25,690	700	4,500	...	(7)
70	South Carolina.....	number... 123	45	24	31	17	59	20	NA	NA	NA
71	.....	acres... 353,916	249,011	204,366	208,249	140,031	88,203	52,477	21,940	15,092	25,200
72	South Dakota.....	number... 41	34	202	205	80	...	(6)	...	2,000	...
73	.....	acres... 660,590	707,263	676,472	697,798	222,062	...	...	...	...	...
74	Tennessee.....	number... 179	151	191	95	2	8	...	NA	NA	...
75	.....	acres... 597,406	615,838	601,592	593,560	363,671	8,433	2,175	1,200	600	...
76	Texas.....	number... 243	543	81	87	54	130	22	NA	NA	NA
77	.....	acres... 5,938,974	5,794,786	4,218,890	2,883,396	2,166,128	369,079	147,345	40,380	28,600	7,500
78	Utah.....	number... 9	471	36	32	17	...	4	NA	NA	NA
79	.....	acres... 66,910	302,158	202,058	156,052	113,823	...	4,120	12,020	11,200	8,304
80	Virginia.....	number... 66	30	2	3	...	...	...	...	...	...
81	.....	acres... 101,976	45,460	15,714	15,042	...	7,286	...	...	3,304	...
82	Washington.....	number... 122	133	165	172	...	...	...	...	...	...
83	.....	acres... 242,482	341,613	405,709	367,242	94,924	1,375	1,280	1,280	1,200	1,100
84	Wisconsin.....	number... 235	206	396	373	290	7	...	...	...	...
85	.....	acres... 588,863	514,700	761,203	892,713	794,569	8,055	700	3,600	5,710	...
86	Wyoming.....	number... 23	325,981	312,662	245,703	95,474	...	...	...	...	500
87	.....	acres... 23,833	...	...	...	...	...	...	...	...	...

Italics indicate States identified in 1950 as "county-drain" States. The other States were designated "drainage-district" States. For the "county-drain" States in 1950 all projects in each county were enumerated as a unit; therefore, the counts shown for that year represent the number of county reports. For 1940, 1930, and 1920, each drain was counted as a separate project. See footnote 7 and text.

Boldface indicates States, other than "county-drain," for which the 1950 drainage data included drained lands in "irrigation enterprises." See footnote 4 and text.

NA Not available.

In 1940, 1930, and 1920, the classification by type of organization included drainage undertakings by two or more operators cooperating without organization under statute law with individual ownership enterprises. One of 10,000 acres in Oregon was identified in the text of the 1920 report as "cooperative drainage." It was included in the "Land in two or more projects" category.

Land in two or more projects included in each project. Areas shown equal the sum of areas of individual projects with no deduction for land included in more than one project.

ORGANIZATION, BY STATES: CENSUSES OF 1920 TO 1960

Cooperative or mutual drains ¹		Legally organized public drains					Not identifiable under the 1960 classification									
		1960 ²	1950 ³	1940 ³	1930 ³	1920 ³	Irrigation enterprises with drainage ⁴				Other and not reported					
1960 ²	1950 ³						1950 ³	1940 ³	1930 ³	1920 ³	1940 ³	1930 ³	1920 ³			
2,469	893	4,175	4,013	NA	NA	NA	9,076	NA	NA	NA	NA	NA	NA	1		
3,577,204	1,409,494	91,358,682	95,776,948	81,705,415	80,894,347	64,352,059	4,119,059	4,240,578	2,644,674	462,599	36,000	14,192	38,362	2		
739	(6)	579	645	NA	NA	NA	12	NA	NA	NA	NA	NA	NA	3		
953,061	(6)	50,865,635	52,023,655	46,901,141	47,569,562	NA	9,486	92,434	80,589	NA	NA	NA	NA	4		
1,730	893	3,586	3,568	NA	NA	NA	9,064	NA	NA	NA	NA	NA	NA	5		
2,624,143	1,409,494	40,493,047	43,753,293	34,804,274	33,324,785	NA	4,109,573	4,148,144	2,564,085	NA	36,000	14,192	4,080	6		
668	200	1,098	1,371	NA	NA	NA	9,064	NA	NA	NA	NA	NA	NA	7		
1,213,864	455,058	25,779,348	30,274,595	21,242,739	19,784,683	NA	4,109,573	4,148,144	2,564,085	NA	NA	14,192	NA	8		
6	7	4	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9		
33,745	40,735	31,656	35,936	28,045	NA	NA	NA	NA	NA	NA	NA	NA	NA	10		
NA	NA	NA	2	NA	NA	NA	23	NA	NA	NA	NA	NA	NA	11		
202	23	229	3,385	5,659	26,931	(7)	193,883	292,974	292,000	(7)	NA	NA	NA	12		
276,463	32,398	5,252,771	4,506,440	4,508,380	4,590,495	3,452,691	94,467	NA	NA	NA	NA	NA	NA	13		
45	13	154	102	NA	NA	NA	1,884	NA	NA	NA	NA	NA	NA	14		
124,511	73,266	1,583,133	1,202,950	1,168,701	1,167,139	795,441	1,101,039	1,408,508	1,016,191	165,200	NA	NA	NA	15		
3	3	10	89	NA	NA	NA	579	NA	NA	NA	NA	NA	NA	16		
5,610	27,190	47,248	255,753	255,709	250,238	138,026	319,612	187,322	99,130	NA	NA	NA	NA	17		
1	(6)	59	62	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	18		
780	(6)	340,742	6352,547	395,014	NA	NA	NA	NA	NA	NA	NA	NA	NA	19		
36	13	92	103	NA	NA	NA	1,651	NA	NA	NA	NA	NA	NA	20		
274,431	118,476	4,237,652	5,430,151	5,676,382	5,849,401	1,518,183	149,758	NA	NA	NA	NA	NA	NA	21		
17	10	24	35	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	22		
24,325	17,205	64,682	69,485	80,674	75,255	55,452	NA	NA	NA	NA	NA	NA	NA	23		
4,362	5,195	102,546	135,172	123,753	118,645	16,082	292,594	532,891	254,969	48,000	NA	NA	NA	24		
154	189	1,203	1,228	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	25		
228,762	302,121	5,575,635	5,041,255	5,060,542	5,016,960	3,891,507	NA	NA	NA	NA	NA	NA	NA	26		
188	(6)	86	679	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	27		
237,047	(6)	11,008,036	611,017,709	10,120,952	10,198,288	9,049,193	NA	NA	NA	NA	NA	NA	NA	28		
89	(6)	150	86	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	29		
125,657	(6)	6,926,465	66,734,863	6,110,558	6,116,092	5,211,683	NA	NA	NA	NA	NA	NA	NA	30		
14	14	84	84	NA	NA	NA	37	NA	NA	NA	NA	NA	NA	31		
23,427	350,896	355,089	250,359	251,619	91,656	1,899	NA	NA	NA	NA	NA	NA	NA	32		
10	(6)	17	118	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	33		
8,660	880,139	6,959,892	462,120	582,125	352,080	NA	NA	NA	NA	NA	NA	NA	NA	34		
235	95	154	117	NA	NA	NA	331	NA	NA	NA	NA	NA	NA	35		
309,784	128,197	7,337,112	11,605,479	3,795,721	3,252,987	2,229,865	83,750	11,600	NA	NA	NA	NA	NA	36		
9	3	129	90	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	37		
14,183	4,333	382,603	319,482	183,337	NA	NA	NA	NA	NA	NA	NA	NA	NA	38		
21	(6)	54	654	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	39		
22,724	(6)	9,870,150	610,194,439	8,970,826	9,159,324	9,706,891	NA	NA	NA	NA	NA	NA	NA	40		
192	(6)	90	682	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	41		
248,293	(6)	10,761,923	511,269,962	10,954,679	11,472,883	9,231,909	NA	NA	NA	NA	NA	NA	NA	42		
230	127	239	249	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	43		
292,531	140,006	2,906,219	2,772,485	2,840,463	2,961,096	1,544,694	NA	NA	NA	NA	NA	NA	NA	44		
56	2	314	315	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	45		
57,739	5,290	3,570,736	3,137,944	3,081,463	3,140,067	2,586,308	NA	NA	NA	NA	NA	NA	NA	46		
6	3	13	22	NA	NA	NA	377	NA	NA	NA	NA	NA	NA	47		
4,685	2,260	54,787	94,172	53,418	39,984	129,432	189,697	312,243	119,545	25,600	NA	NA	NA	48		
4	5	149	5	NA	NA	NA	319	NA	NA	NA	NA	NA	NA	49		
6,940	3,970	734,064	713,821	721,986	696,994	591,772	103,297	194,195	179,385	8,688	NA	NA	NA	50		
NA	1	2	4	NA	NA	NA	77	NA	NA	NA	NA	NA	NA	51		
NA	2,500	41,521	125,595	24,398	80,756	(7)	123,059	126,375	82,224	(7)	NA	NA	NA	52		
9	4	1	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	53		
10,956	6,906	4	4,300	NA	NA	NA	218	NA	NA	NA	NA	NA	NA	54		
NA	NA	4	5	NA	NA	NA	192,848	133,089	116,455	(7)	NA	NA	NA	55		
NA	NA	30,993	52,113	172,796	59,837	(7)	NA	NA	NA	NA	NA	NA	NA	56		
13	5	4	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	57		
20,071	25,582	28,245	28,245	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	58		
403	287	122	122	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	59		
485,339	332,356	866,267	779,811	766,876	661,866	482,977	NA	NA	NA	NA	NA	NA	NA	60		
144	(6)	17	915	NA	NA	NA	6	NA	NA	NA	NA	NA	NA	61		
200,630	(6)	1,531,553	61,565,055	1,356,113	1,088,053	1,240,328	7,165	19,928	6,089	NA	NA	NA	NA	62		
76	(6)	63	663	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	63		
88,555	(6)	8,782,878	69,923,362	7,729,267	8,165,494	8,097,553	4	NA	NA	NA	NA	NA	1,915	64		
9,656	(6)	114,108	7298,853	197,756	166,048	(7)	2,031	NA	NA	NA	NA	NA	NA	65		
56	44	48	NA	NA	NA	NA	1,032	NA	NA	NA	NA	NA	NA	66		
87,807	16,507	200,724	161,286	139,580	121,778	(7)	240,365	209,245	71,112	(7)	NA	NA	13,792	67		
52	11	12	14	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	68		
97,212	28,540	168,501	167,994	182,426	193,157	114,831	NA	NA	NA	NA	NA	NA	NA	69		
8	(6)	33	832	NA	NA	NA	2	NA	NA	NA	NA	NA	NA	70		
11,059	(6)	649,531	6706,973	603,966	621,258	222,062	290	72,506	74,500	NA	NA	NA	NA	71		
37	20	134	129	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	72		
39,293	21,623	549,680	592,040	600,392	592,671	363,671	NA	NA	NA	NA	NA	NA	NA	73		
43	13	70	62	NA	NA	NA	446	NA	NA	NA	NA	NA	NA	74		
74,170	18,155	5,495,725	5,155,647	3,844,378	2,767,477	2,102,628	473,639	334,092	87,279	56,000	NA	NA	NA	75		
1	7	8	25	NA	NA	NA	435	NA	NA	NA	NA	NA	NA	76		
1,300	16,070	65,610	130,003	148,677	144,852	105,519	151,965	41,361	NA	NA	NA	NA	NA	77		
59	28	2	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	78		
82,289	29,739	12,401	15,721	15,714	11,738	NA	NA	NA	NA	NA	NA	NA	NA	79		
20	9	100	130	NA	NA	NA	393	NA	NA	NA	NA	NA	NA	80		
20,374	8,205	220,733	263,423	264,039	275,642	93,824	158,705	140,390	90,000	NA	NA	400	NA	81		
23,834	2	211	205	NA	NA	NA	NA	NA	NA	NA	36,000	NA	4,080	82		
NA	NA	556,974	514,000	721,603	887,005	790,469	NA	NA	NA	NA	NA	NA	NA	83		
NA	2	6	17	NA	NA	NA	170	NA	NA	NA	NA	NA	NA	84		
NA	2,669	23,833	84,116	88,803	89,908	60,834	239,196	223,859	155,795	34,140	NA	NA	NA	85		

DRAINAGE OF AGRICULTURAL LANDS

Summary Table 13.—AREA DRAINED BY YEAR DRAINAGE WAS ESTABLISHED, 1960; AND

State	Area drained by year drainage was established, 1960 Census						Drainage projects by year organized		
	Land in drainage projects ¹			Totals of areas of individual projects ²			1960 Census ²		
	All projects	Drainage established 1950-1959	Drainage established before 1950	All projects	Drainage established 1950-1959	Drainage established before 1950	All projects	Organized, 1950-1959	Organized before 1950
1 All drainage States.....number...	8,461	NA	NA	8,461	1,791	7,190	8,461	2,503	5,958
2 acres...	92,296,864	5,316,593	86,960,271	99,098,430	5,481,823	93,616,607	99,098,430	6,258,852	92,839,578
3 10 "county-drain" States.....number...	1,397	NA	NA	1,397	443	1,177	1,397	536	861
4 acres...	50,835,337	1,787,086	49,048,251	51,909,639	1,795,253	50,114,386	51,909,639	843,095	51,066,544
5 30 "drainage-district" States.....number...	7,064	NA	NA	7,064	1,348	6,013	7,064	1,967	5,097
6 acres...	41,461,527	3,549,507	37,912,020	47,188,791	3,686,570	43,502,221	47,188,791	5,415,797	41,773,034
7 17 irrigation States.....number...	3,157	NA	NA	3,157	724	2,594	3,157	1,147	2,010
8 acres...	26,263,711	2,521,948	23,741,763	30,596,286	2,627,739	27,968,547	30,596,286	3,813,290	26,782,996
9 Alabama.....number...	11	NA	NA	11	4	10	11	1	10
10 acres...	65,901	1,050	64,851	65,901	1,050	64,851	65,901	500	65,401
11 Arizona.....number...	...	...	...	...	...	...	...	...	...
12 acres...	...	...	...	...	...	...	...	...	...
13 Arkansas.....number...	598	NA	NA	598	151	484	598	338	260
14 acres...	4,680,966	233,263	4,447,703	5,765,138	235,521	5,529,817	5,765,138	773,954	4,991,184
15 California.....number...	356	NA	NA	356	84	282	356	87	269
16 acres...	1,911,291	244,352	1,666,939	2,019,547	252,515	1,767,032	2,019,547	267,081	1,752,466
17 Colorado.....number...	16	NA	NA	16	...	16	16	...	16
18 acres...	55,496	...	55,496	...	55,496	...	55,496	...	55,496
19 Delaware.....number...	60	NA	NA	60	2	59	60	10	50
20 acres...	340,922	856	340,066	341,522	856	340,666	341,522	22,822	318,700
21 Florida.....number...	516	NA	NA	516	152	398	516	197	319
22 acres...	4,855,327	548,956	4,306,371	6,348,491	565,295	5,783,196	6,348,491	828,437	5,520,054
23 Georgia.....number...	52	NA	NA	52	18	42	52	14	38
24 acres...	93,228	25,246	67,982	101,854	25,246	76,608	101,854	34,333	67,521
25 Idaho.....number...	23	NA	NA	23	3	20	23	1	22
26 acres...	110,982	864	110,118	110,982	864	110,118	110,982	704	110,278
27 Illinois.....number...	1,496	NA	NA	1,496	74	1,422	1,496	101	1,395
28 acres...	5,563,426	134,693	5,428,733	5,883,070	134,853	5,748,217	5,883,070	227,977	5,655,113
29 Indiana.....number...	292	NA	NA	292	60	265	292	154	138
30 acres...	11,053,446	73,826	10,980,064	11,267,848	73,382	11,194,466	11,267,848	197,004	11,070,844
31 Iowa.....number...	249	NA	NA	249	73	249	249	64	185
32 acres...	6,871,339	123,235	6,748,104	7,063,570	124,262	6,939,308	7,063,570	75,368	6,988,202
33 Kansas.....number...	103	NA	NA	103	26	81	103	29	76
34 acres...	373,110	63,179	309,135	377,983	64,079	313,908	377,983	68,772	309,211
35 Kentucky.....number...	28	NA	NA	28	7	21	28	8	20
36 acres...	888,799	6,046	882,753	890,799	6,046	884,753	890,799	6,646	884,153
37 Louisiana.....number...	915	NA	NA	915	116	835	915	116	799
38 acres...	7,110,624	965,687	6,144,937	8,457,799	1,032,659	7,425,144	8,457,799	1,521,116	6,936,683
39 Maryland.....number...	138	NA	NA	138	10	128	138	22	116
40 acres...	350,447	8,816	341,631	396,786	8,816	387,970	396,786	36,354	360,432
41 Michigan.....number...	86	NA	NA	86	42	83	86	22	64
42 acres...	9,877,049	123,587	9,753,462	9,900,328	123,587	9,776,741	9,900,328	16,365	9,883,963
43 Minnesota.....number...	307	NA	NA	307	233	307	307	160	147
44 acres...	10,560,808	1,244,237	9,316,571	11,045,146	1,251,377	9,793,769	11,045,146	370,380	10,674,766
45 Mississippi.....number...	590	NA	NA	590	137	487	590	197	393
46 acres...	3,040,607	249,368	2,791,239	3,354,500	252,407	3,102,093	3,354,500	438,218	2,919,182
47 Missouri.....number...	...	NA	NA	...	42	36	...	11	34
48 acres...	3,097,316	38,142	3,059,174	3,670,629	45,839	3,624,790	3,670,629	167,964	3,502,665
49 Montana.....number...	20	NA	NA	20	10	11	20	9	11
50 acres...	60,112	10,456	49,656	60,112	10,456	49,656	60,112	8,847	51,265
51 Nebraska.....number...	103	NA	NA	103	9	102	103	4	99
52 acres...	739,220	41,306	697,914	741,004	41,306	699,698	741,004	33,300	707,704
53 Nevada.....number...	2	NA	NA	2	...	2	2	...	2
54 acres...	41,521	...	41,521	...	41,521	...	41,521	...	41,521
55 New Jersey.....number...	9	NA	NA	9	...	9	9	...	9
56 acres...	10,956	4,850	6,106	10,956	4,850	6,106	10,956	4,650	6,306
57 New Mexico.....number...	5	NA	NA	5	...	5	5	...	5
58 acres...	31,593	1,300	30,293	31,593	1,300	30,293	31,593	600	30,993
59 New York.....number...	19	NA	NA	19	6	13	19	6	13
60 acres...	49,616	4,451	45,165	49,616	4,451	45,165	49,616	4,451	45,165
61 North Carolina.....number...	564	NA	NA	564	153	434	564	186	378
62 acres...	1,320,503	254,482	1,066,021	1,417,013	254,482	1,162,530	1,417,013	322,432	1,094,600
63 North Dakota.....number...	161	NA	NA	161	29	144	161	27	134
64 acres...	1,643,183	124,160	1,519,023	1,732,183	124,160	1,608,023	1,732,183	55,550	1,676,633
65 Ohio.....number...	342	NA	NA	342	38	304	342	63	279
66 acres...	8,809,415	61,670	8,747,745	8,873,877	61,670	8,812,187	8,873,877	68,803	8,805,074
67 Oklahoma.....number...	31	NA	NA	31	19	12	31	20	11
68 acres...	133,796	18,584	115,212	133,796	18,584	115,212	133,796	19,098	114,698
69 Oregon.....number...	110	NA	NA	110	51	64	110	51	59
70 acres...	270,454	79,585	190,869	314,221	82,370	231,851	314,221	96,592	217,629
71 South Carolina.....number...	123	NA	NA	123	88	34	123	82	41
72 acres...	338,066	108,787	229,279	353,916	124,637	229,279	353,916	118,612	234,304
73 South Dakota.....number...	41	NA	NA	41	8	35	41	8	33
74 acres...	658,580	11,529	647,051	660,590	11,529	649,061	660,590	11,059	649,531
75 Tennessee.....number...	179	NA	NA	179	18	164	179	25	154
76 acres...	590,879	98,054	492,825	597,406	98,054	499,352	597,406	129,430	467,976
77 Texas.....number...	243	NA	NA	243	103	140	243	110	133
78 acres...	5,691,130	318,198	5,372,932	5,938,974	327,776	5,611,198	5,938,974	194,260	5,744,714
79 Utah.....number...	9	NA	NA	9	...	9	9	...	9
80 acres...	66,910	530	66,380	66,910	530	66,380	66,910	65,870	66,240
81 Virginia.....number...	66	NA	NA	66	37	29	66	38	28
82 acres...	92,778	51,971	40,807	101,976	56,497	45,479	101,976	63,717	38,259
83 Washington.....number...	122	NA	NA	122	17	112	122	14	108
84 acres...	241,182	13,486	227,696	242,482	13,486	228,996	242,482	18,887	223,595
85 Wisconsin.....number...	235	NA	NA	235	36	209	235	32	203
86 acres...	584,093	47,649	536,444	588,863	47,649	541,214	588,863	55,549	533,314
87 Wyoming.....number...	6	NA	NA	6	...	6	6	...	6
88 acres...	23,833	...	23,833	23,833	...	23,833	23,833	...	23,833

Italics indicate States identified in 1950 as "county-drain" States. The other States were designated "drainage-district" States. For the "county-drain" States in 1950 all drainage projects in each county were enumerated as a unit; therefore, the counts shown for that year represent the number of county reports. For 1940, 1930, and 1920, the county was counted as a separate project. See footnote 4 and text.

Bolicef indicates States, other than "county-drain," for which the 1950 drainage data included drained lands in "irrigation enterprises," enumerated in the Census of Irrigation. See footnote 4 and text.

NA Not available.

¹Land in two or more projects included only once.

²Land in two or more projects included in each project. Areas shown equal the sum of areas of individual projects with no deduction for land included in more than one project.

DRAINAGE PROJECTS BY YEAR OF ORGANIZATION, CENSUSES OF 1920 TO 1960; BY STATES

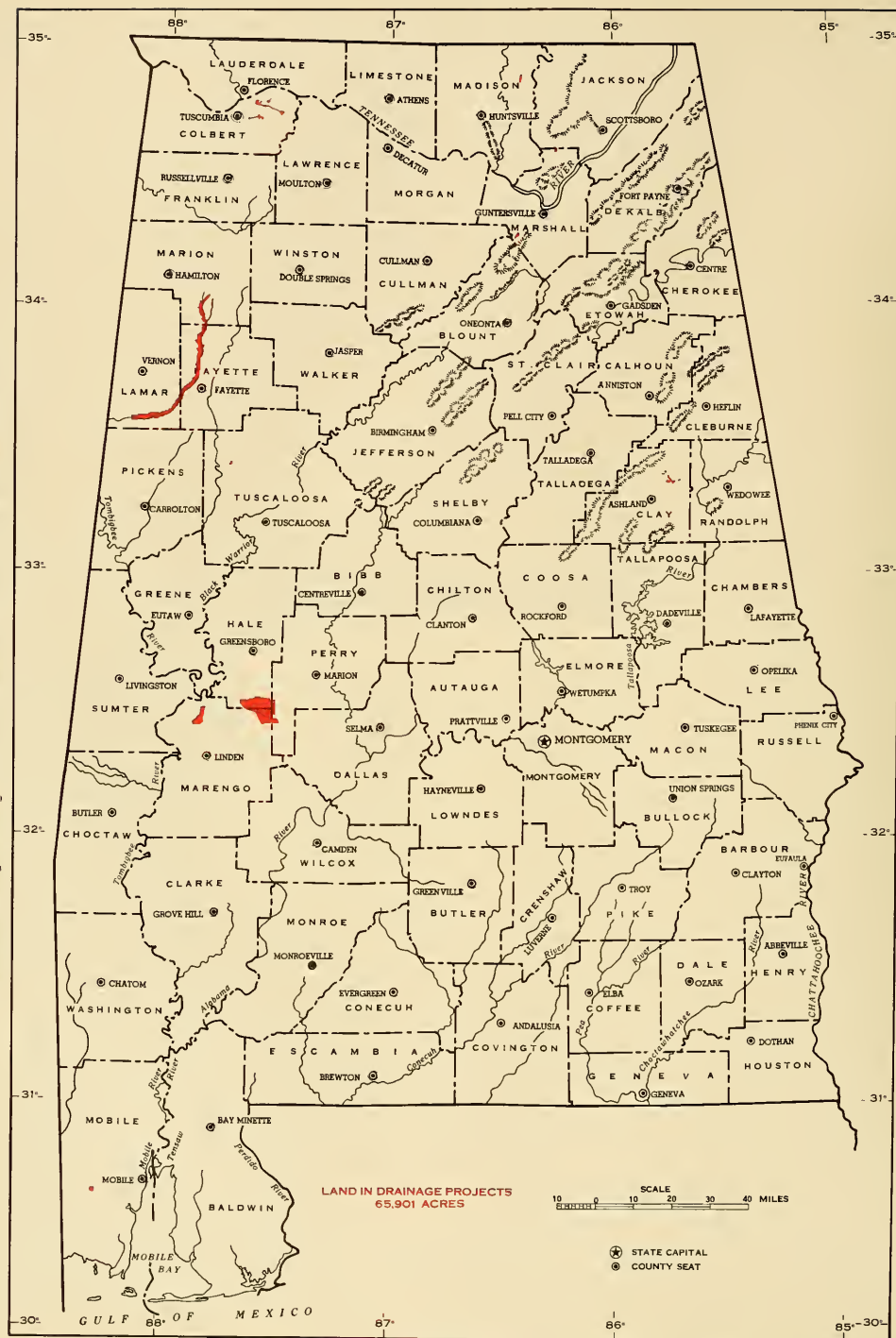
Drainage projects by year organized—Continued															
1950 Census ³				1940 Census ³				1930 Census ³				1920 Census ³			
All projects	Organized, 1940-1949	Organized before 1940	Year not reported ⁴	All projects	Organized, 1930-1939	Organized before 1930	All projects	Organized, 1920-1929	Organized before 1920	All projects	Organized, 1910-1919	Organized before 1910	Year not reported		
14,533	41,263	43,749	9,521	39,997	NA	NA	67,927	NA	56,949	NA	NA	NA	NA	1	
102,688,331	41,351,738	42,193,879	56,142,714	86,967,039	5,966,247	81,000,792	84,408,093	10,716,605	73,691,488	65,495,038	68,719,717	56,545,774	229,547	2	
457	(4)	(4)	457	34,596	NA	NA	62,391	NA	52,962	NA	NA	NA	NA	3	
52,033,141	(4)	(4)	52,033,141	47,094,801	3,209,164	43,885,637	47,720,374	3,828,049	43,892,325	43,213,765	NA	NA	NA	4	
14,076	1,263	3,749	9,064	5,001	NA	NA	5,536	NA	3,228	NA	NA	NA	NA	5	
50,655,190	14,351,738	32,193,879	4,109,373	39,872,238	2,757,083	37,115,155	36,687,719	6,888,556	29,799,163	22,281,273	NA	NA	NA	6	
10,862	636	1,162	9,064	1,747	NA	NA	2,119	NA	906	NA	NA	NA	NA	7	
35,995,203	13,206,307	18,679,323	4,109,373	26,098,986	2,164,576	23,934,410	23,043,464	4,151,246	18,892,218	12,268,025	NA	NA	NA	8	
10	7	3	...	1	...	NA	...	...	...	...	...	...	...	9
76,671	40,735	35,936	...	28,045	...	28,045	...	...	...	...	...	...	...	10
25	...	23	...	23	...	NA	...	...	...	...	...	...	...	11
197,268	...	3,385	193,883	298,633	...	298,633	318,931	24,891	294,040	39,640	(7)	(7)	(7)	12	
84	32	235	577	250	...	NA	316	NA	174	NA	NA	NA	NA	13	
4,701,095	130,269	4,476,359	94,467	4,592,738	109,297	4,483,441	4,631,155	741,744	3,889,411	3,479,591	2,561,950	869,641	48,000	14	
2,047	21	142	1,884	158	...	NA	162	NA	145	NA	NA	NA	NA	15	
2,556,576	53,454	1,400,083	1,101,039	2,667,194	42,723	2,624,471	2,233,714	479,954	1,753,760	1,108,319	566,114	471,396	70,809	16	
630	3	48	579	56	NA	NA	58	NA	24	NA	NA	NA	NA	17	
623,976	12,190	292,174	319,612	468,322	74,959	393,363	366,719	191,233	175,486	171,656	171,656	...	...	18
2	(4)	(4)	2	287	NA	NA	NA	...	...	...	...	...	...	19
352,547	(4)	(4)	352,547	395,014	114,382	280,632	NA	...	...	...	...	...	...	20
1,889	131	107	1,651	101	...	NA	146	NA	94	NA	NA	NA	NA	21	
6,083,676	501,508	5,432,410	149,758	5,699,022	20,136	5,678,886	5,954,934	516,448	5,438,486	1,637,073	1,630,103	6,970	...	22	
55	16	39	...	52	...	NA	59	NA	46	NA	NA	NA	NA	23	
96,259	23,468	72,771	...	84,374	...	84,374	84,255	74,097	65,452	55,452	10,000	...	...	24
379	12	32	335	50	...	NA	NA	50	NA	NA	NA	NA	NA	25	
436,171	14,246	129,331	292,594	659,136	28,665	630,471	375,464	70,435	305,029	64,642	64,642	...	...	26
1,433	98	1,335	...	1,695	...	NA	1,919	NA	1,365	NA	NA	NA	NA	27	
5,370,823	238,919	5,131,906	...	5,091,364	201,352	4,890,012	5,032,682	585,394	4,447,288	3,909,049	909,993	2,988,033	11,023	28	
79	(4)	(4)	79	8,893	...	NA	18,339	NA	12,004	NA	NA	NA	NA	29	
11,017,709	(4)	(4)	11,017,709	10,121,952	879,596	9,242,358	10,214,014	658,505	9,555,309	9,087,183	2,220,090	6,861,184	5,909	30	
86	(4)	(4)	86	3,180	...	NA	3,730	NA	2,883	NA	NA	NA	NA	31	
6,734,863	(4)	(4)	6,734,863	6,164,344	71,665	6,092,679	6,137,649	620,617	5,517,032	5,228,478	3,077,143	2,134,524	12,811	32	
121	14	70	...	88	...	NA	88	NA	54	NA	NA	NA	NA	33	
356,988	48,401	306,688	1,899	258,113	13,940	244,173	257,169	42,753	234,416	93,856	47,579	46,277	...	34	
959,892	(4)	(4)	959,892	465,270	18,584	446,686	585,625	152,470	433,155	358,480	243,743	112,937	1,800	35	
922	317	511	...	511	...	NA	741	NA	111	NA	NA	NA	NA	36	
12,161,665	10,349,967	1,727,948	83,750	12,193,624	555,502	3,664,122	3,655,483	954,414	2,701,069	2,266,328	1,082,796	1,183,536	...	37	
93	20	73	...	126	...	NA	...	...	...	...	...	...	...	38
323,815	57,525	266,290	...	281,337	125,865	57,472	NA	...	...	...	...	...	...	39
54	(4)	(4)	54	7,692	...	NA	10,640	NA	10,423	NA	NA	NA	NA	40	
10,194,439	(4)	(4)	10,194,439	8,978,386	701,872	8,276,514	9,180,851	844,770	8,336,081	9,729,171	3,435,274	6,273,912	19,985	41	
42	(4)	(4)	42	2,488	...	NA	2,885	NA	2,440	NA	NA	NA	NA	42	
11,269,962	(4)	(4)	11,269,962	10,990,409	73,384	10,917,025	11,474,683	809,517	10,665,166	9,232,709	5,633,290	3,585,208	14,211	43	
441	178	263	...	271	...	NA	167	NA	167	NA	NA	NA	NA	44	
3,023,744	263,245	2,760,499	...	2,890,618	47,483	2,843,135	2,988,496	1,113,630	1,874,866	1,601,444	1,341,552	259,892	...	45	
318	14	304	...	286	...	NA	367	NA	238	NA	NA	NA	NA	46	
3,147,484	46,380	3,101,104	...	3,087,063	61,472	3,025,591	3,150,022	474,001	2,676,021	2,596,204	866,151	1,723,317	6,736	47	
404	6	21	...	34	...	NA	27	NA	17	NA	NA	NA	NA	48	
289,189	15,338	84,354	189,497	372,661	17,172	355,489	167,629	133,221	34,408	168,682	134,499	21,533	12,650	49	
473	25	129	...	125	...	NA	138	NA	123	NA	NA	NA	NA	50	
821,088	60,062	657,729	103,297	916,181	31,244	884,937	879,459	126,388	753,071	607,730	184,707	423,023	...	51	
82	...	...	...	...	...	NA	...	...	...	...	...	...	...	52
251,154	...	128,095	123,059	153,373	11,678	141,695	162,980	47,956	115,024	15,940	(7)	(7)	(7)	53	
5	4	1	...	...	...	NA	...	...	...	...	...	...	...	54
11,206	6,906	4,300	...	...	...	NA	...	...	...	...	...	...	...	55
223	...	218	...	218	...	NA	11	NA	8	NA	NA	NA	NA	56	
244,961	...	52,113	192,848	305,885	7,200	298,685	176,292	4,740	171,552	140,219	(7)	(7)	(7)	57	
14	8	6	...	...	...	NA	...	...	...	...	...	...	...	58
56,465	26,963	29,502	...	...	...	NA	...	...	...	...	...	...	...	59
413	190	223	...	246	...	NA	...	...	...	...	...	...	...	60
1,128,509	281,679	846,830	...	825,976	121,365	704,211	679,236	172,079	507,157	542,828	487,118	55,710	...	61	
21	(4)	(4)	21	141	...	NA	152	NA	137	NA	NA	NA	NA	62	
1,572,220	(4)	(4)	1,572,220	1,376,041	...	1,376,041	1,094,142	29,719	1,064,423	1,240,328	365,274	875,054	...	63	
43	(4)	(4)	43	11,530	...	NA	26,191	NA	24,871	NA	NA	NA	NA	64	
8,923,362	(4)	(4)	8,923,362	7,729,267	1,324,363	6,404,904	8,165,404	380,508	7,784,986	8,107,206	943,202	7,161,648	2,669	65	
300,884	(4)	(4)	300,884	197,646	25,320	172,326	170,158	70,850	99,308	12,750	(7)	(7)	(7)	66	
1,087	11	44	1,032	63	NA	NA	51	NA	NA	NA	NA	NA	NA	67	
418,858	20,266	158,227	240,365	348,825	76,543	272,282	211,182	87,681	123,501	4,000	(7)	(7)	(7)	68	
45	26	19	...	34	...	NA	...	...	...	...	...	...	...	69
249,011	68,076	180,935	...	204,366	...	204,366	208,249	131,778	76,471	140,031	140,031	...	...	70
707,263	(4)	(4)	707,263	676,472	...	676,472	697,758	261,093	436,665	222,062	162,616	59,446	...	71	
151	19	132	...	155	...	NA	191	NA	95	NA	NA	NA	NA	72	
615,838	22,590	593,248	...	601,592	28,160	573,432	593,560	106,730	486,830	363,671	363,671	...	...	73
543	38	59	446	81	...	NA	87	NA	54	NA	NA	NA	NA	74	
5,794,786	1,965,642	3,355,505	473,639	4,218,850	1,158,388	3,060,462	2,883,356	516,632	2,366,724	2,166,128	1,272,147	893,981	...	75	
471	8	28	435	36	NA	NA	32	NA	NA	17	NA	NA	NA	76	
302,158	7,884	142,309	151,965	202,058	2,303	199,755	156,052	25,564	130,488	113,823	113,823	750	...	77	
30	27	3	...	2	...	NA	...	...	...	...	...	...	...	78
45,460	25,939	19,521	...	15,714	...	15,714	15,042	11,738	3,304	...	...	...	...	79
533	16	124	393	165	...	NA	172	NA	52	NA	NA	NA	NA	80	
431,613	24,411	248,497	158,705	405,200	14,826	390,883	367,242	78,643	288,599	94,924	45,258				

DRAINAGE MAPS

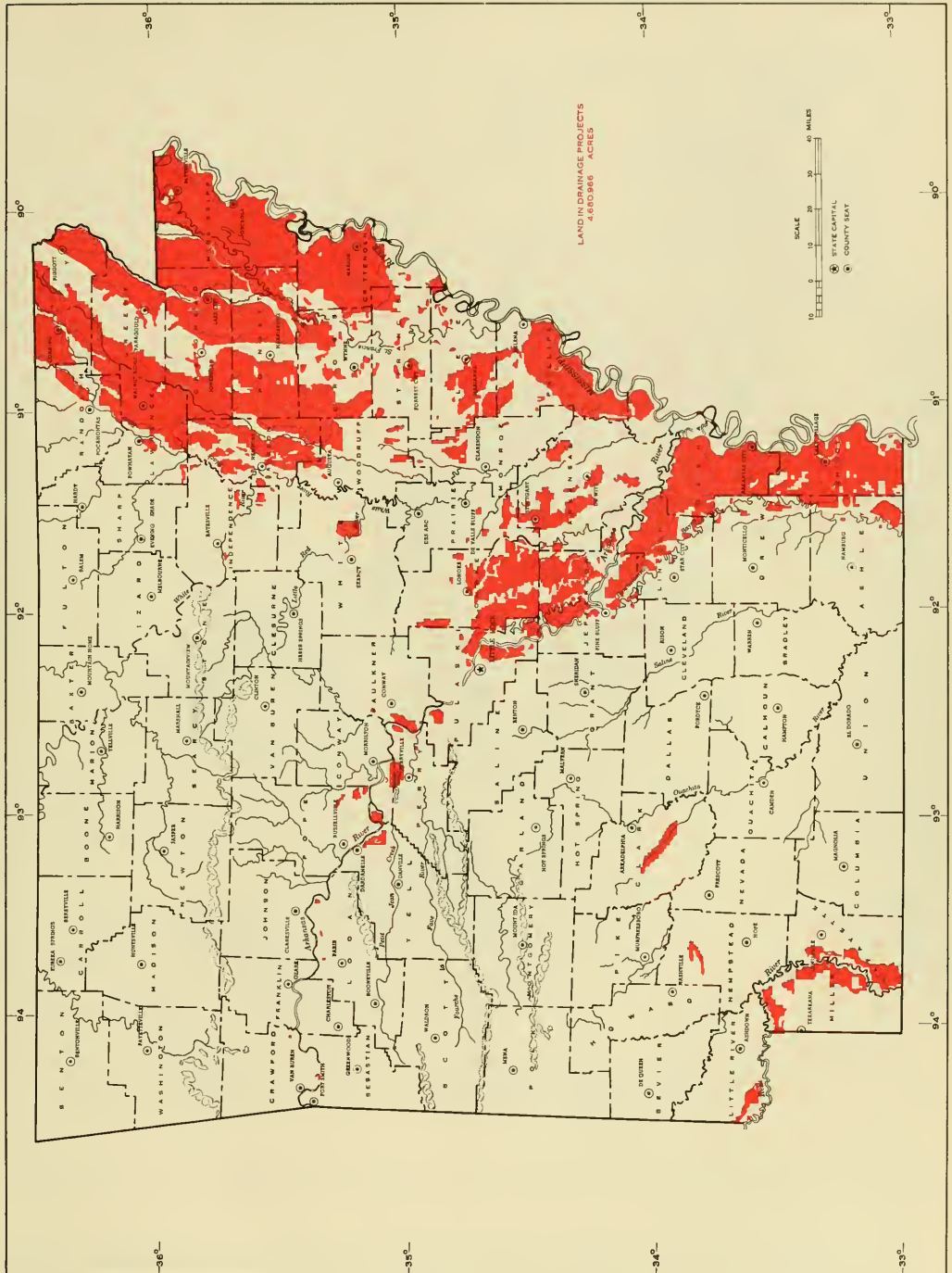
(31)

DRAINAGE OF AGRICULTURAL LANDS

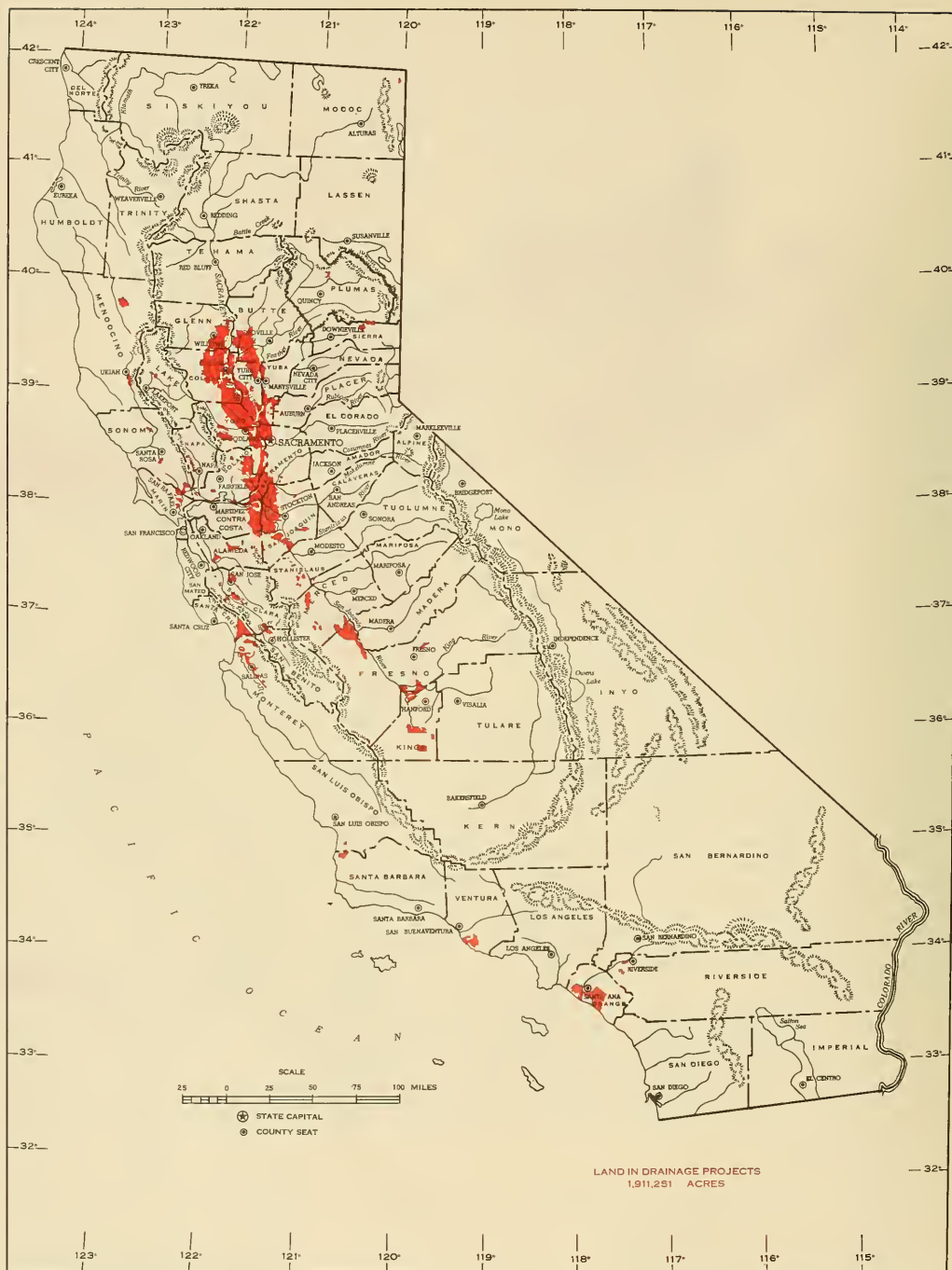
ALABAMA—LOCATION OF LAND IN DRAINAGE PROJECTS, 1960
(Projects benefiting 500 or more acres of agricultural lands)



ARKANSAS-LOCATION OF LAND IN DRAINAGE PROJECTS, 1960
(Projects benefiting 500 or more acres of agricultural lands)



CALIFORNIA—LOCATION OF LAND IN DRAINAGE PROJECTS, 1960
(Projects benefiting 500 or more acres of agricultural lands)

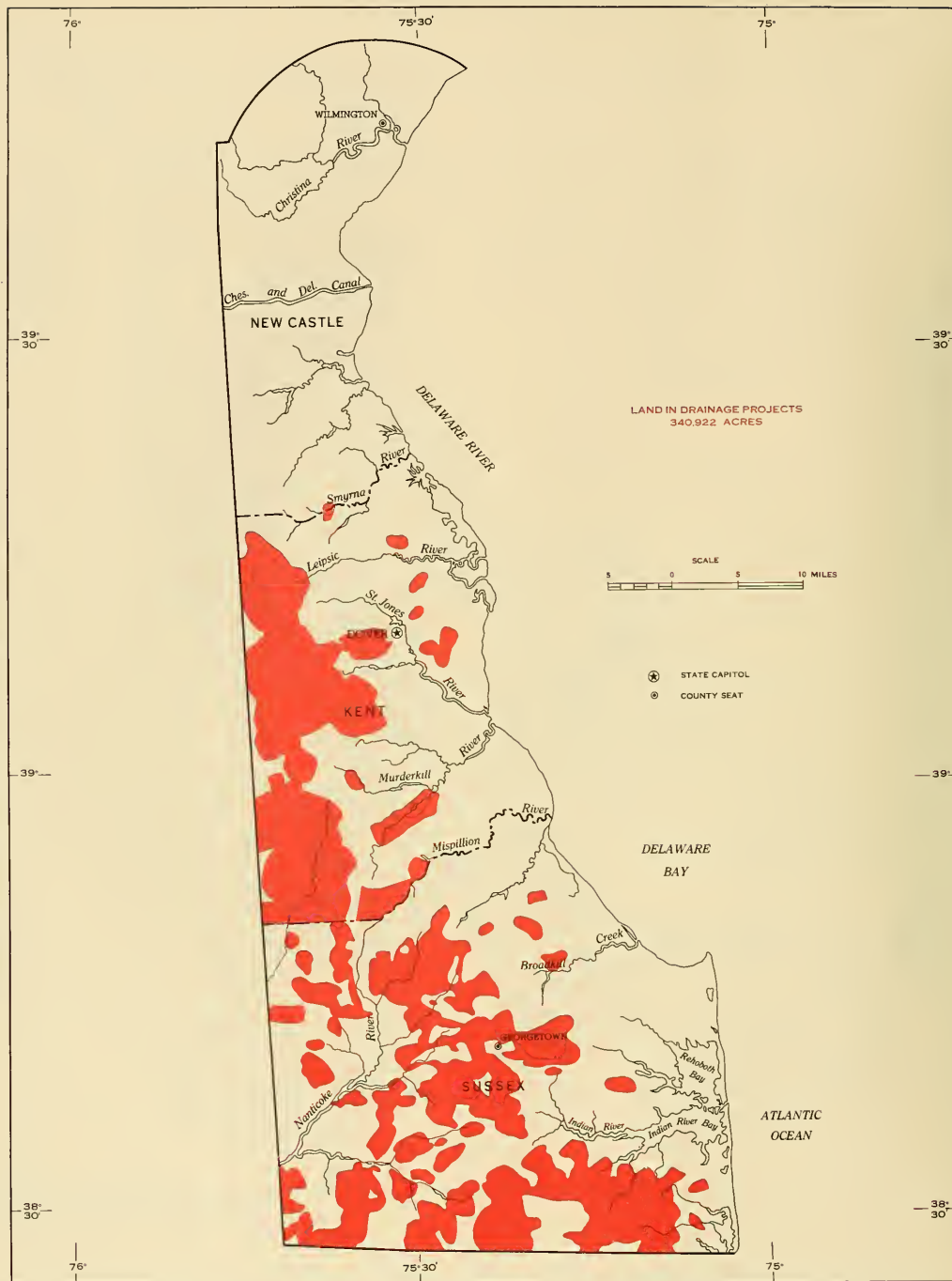


LAND IN DRAINAGE PROJECTS
55,496 ACRES

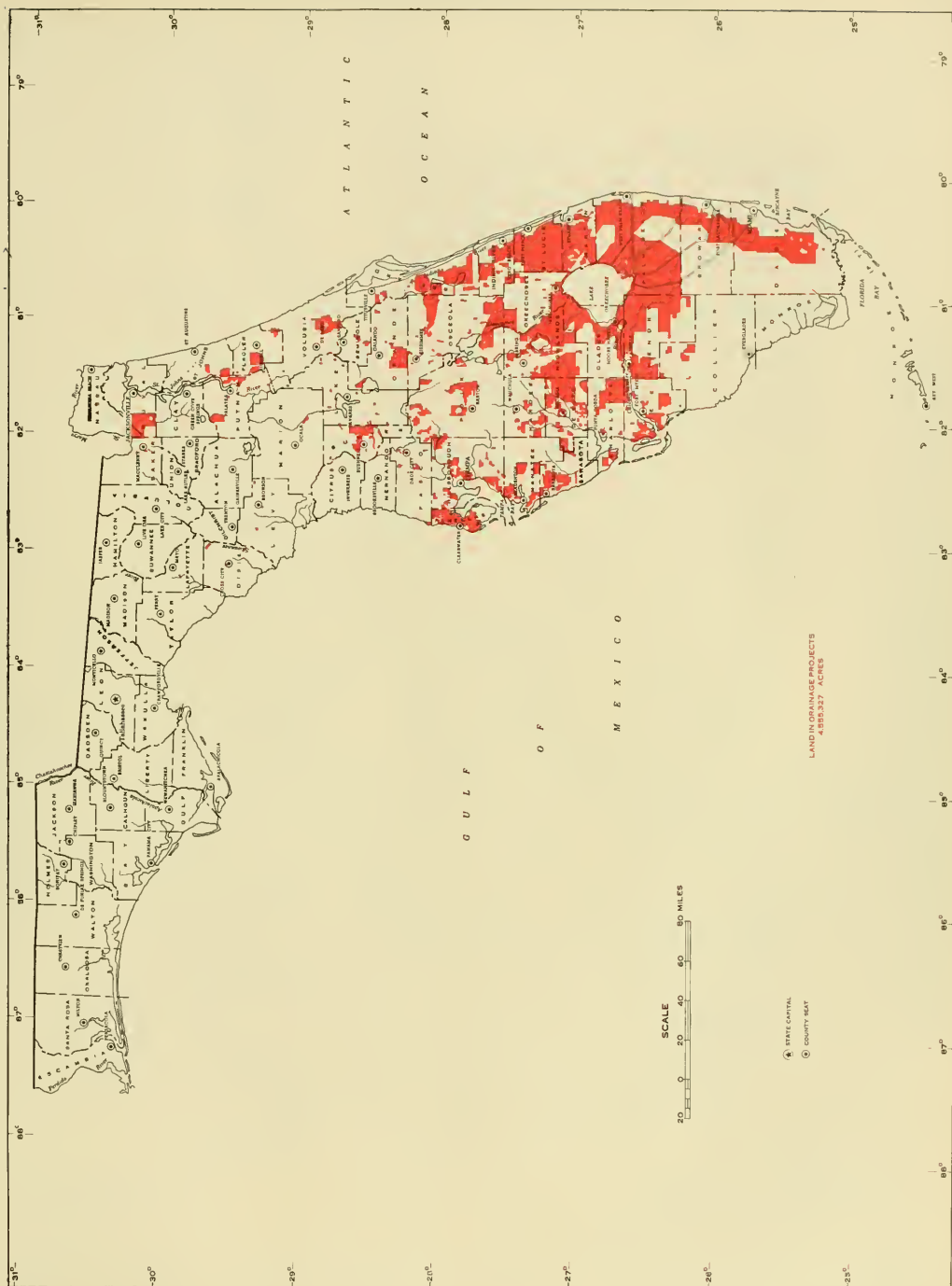
SCALE
0 10 20 30 40 50 MILES

STATE CAPITAL
COUNTY SEAT

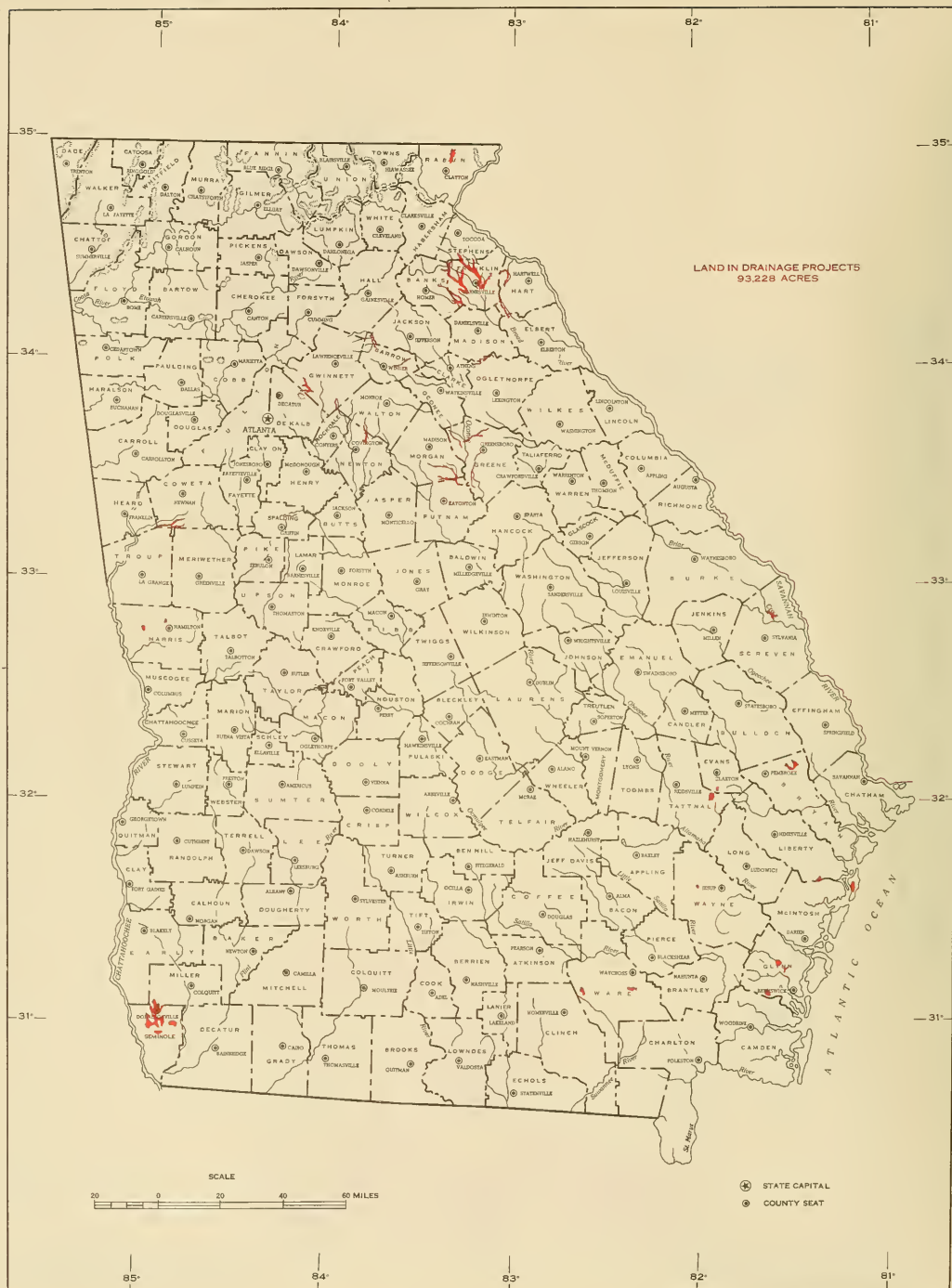
DELAWARE-LOCATION OF LAND IN DRAINAGE PROJECTS, 1960
(Projects benefiting 500 or more acres of agricultural lands)

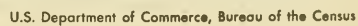


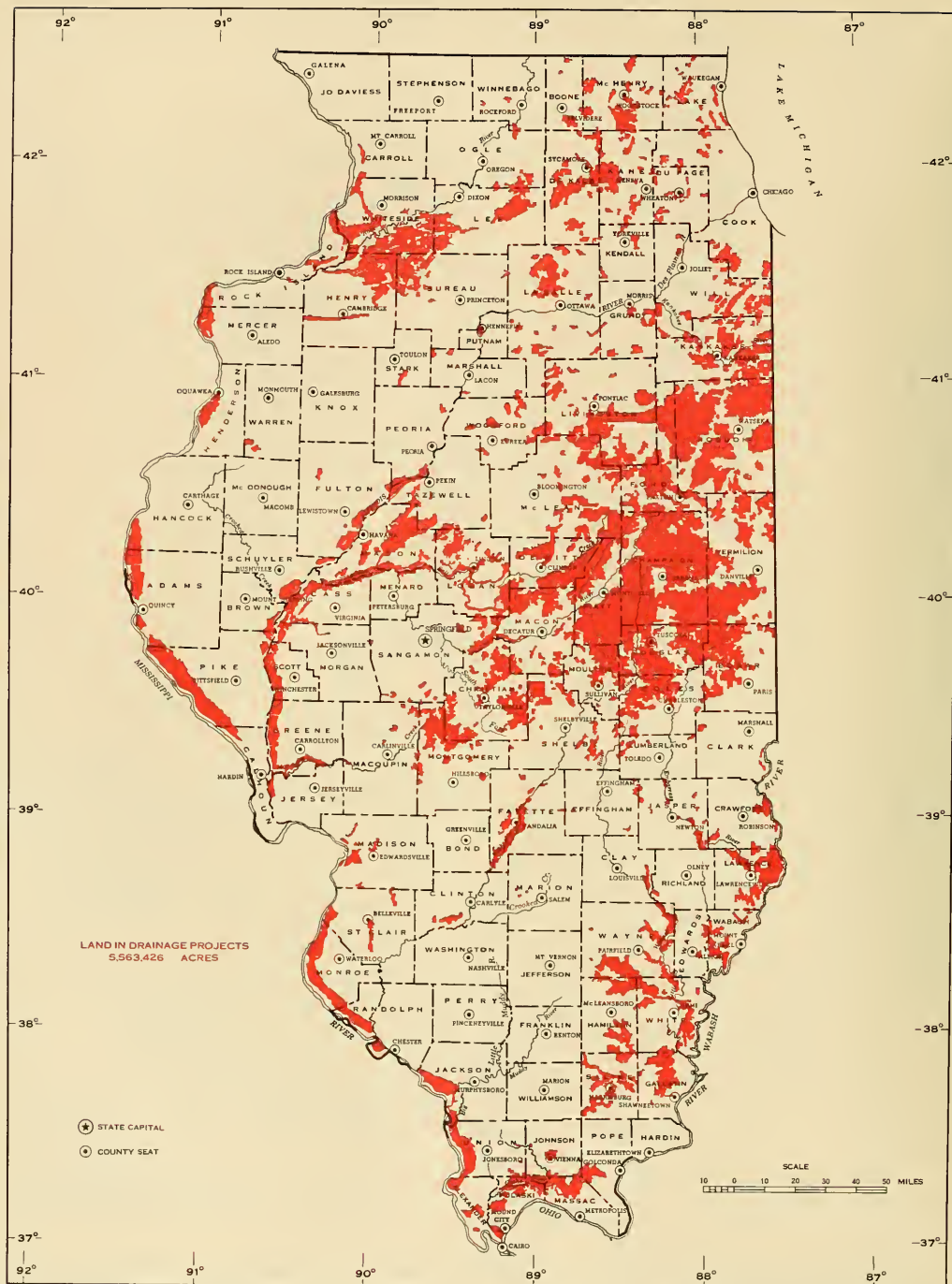
FLORIDA—LOCATION OF LAND IN DRAINAGE PROJECTS, 1960 (Projects benefiting 500 or more acres of agricultural lands)



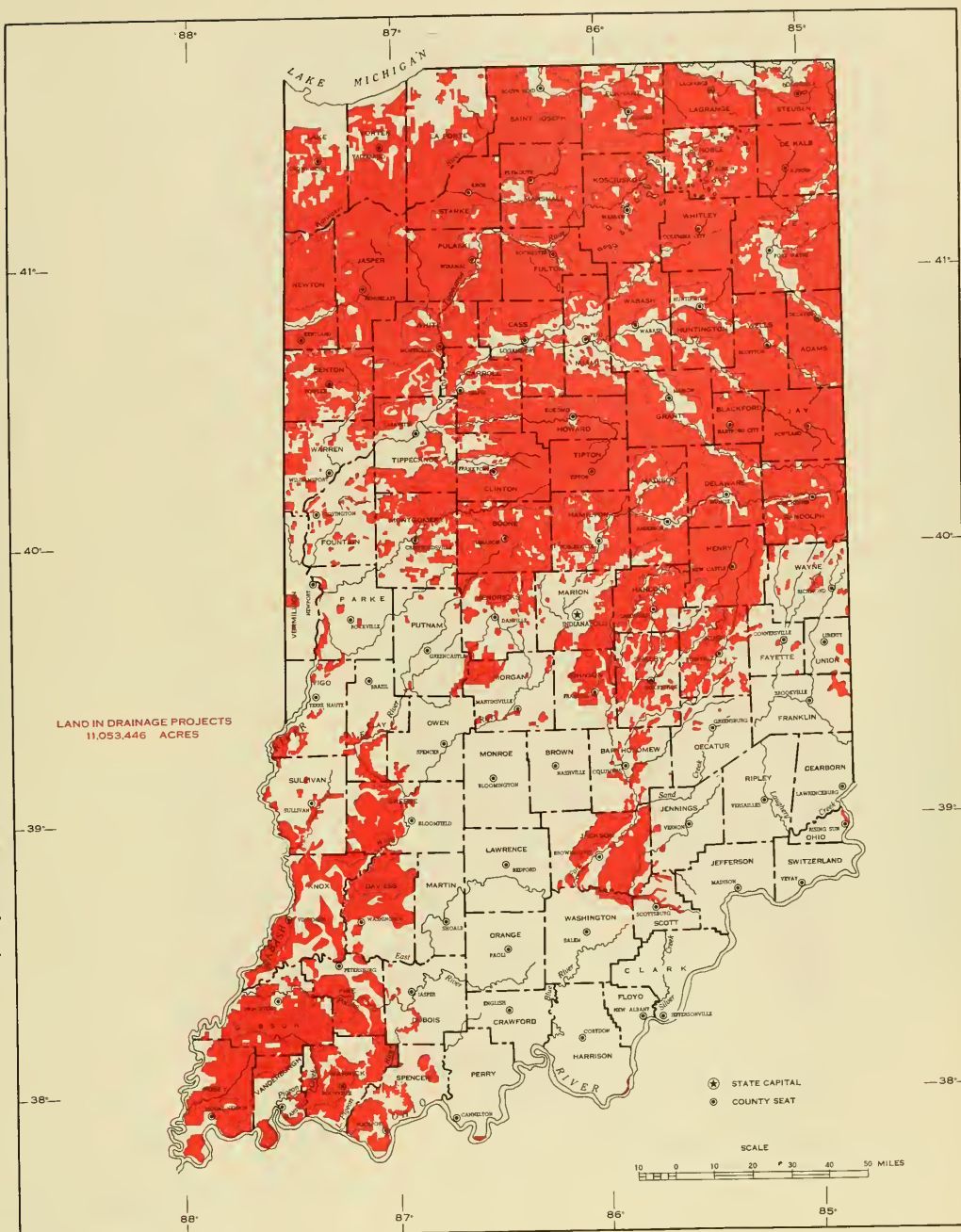
GEORGIA—LOCATION OF LAND IN DRAINAGE PROJECTS, 1960
(Projects benefiting 500 or more acres of agricultural lands)



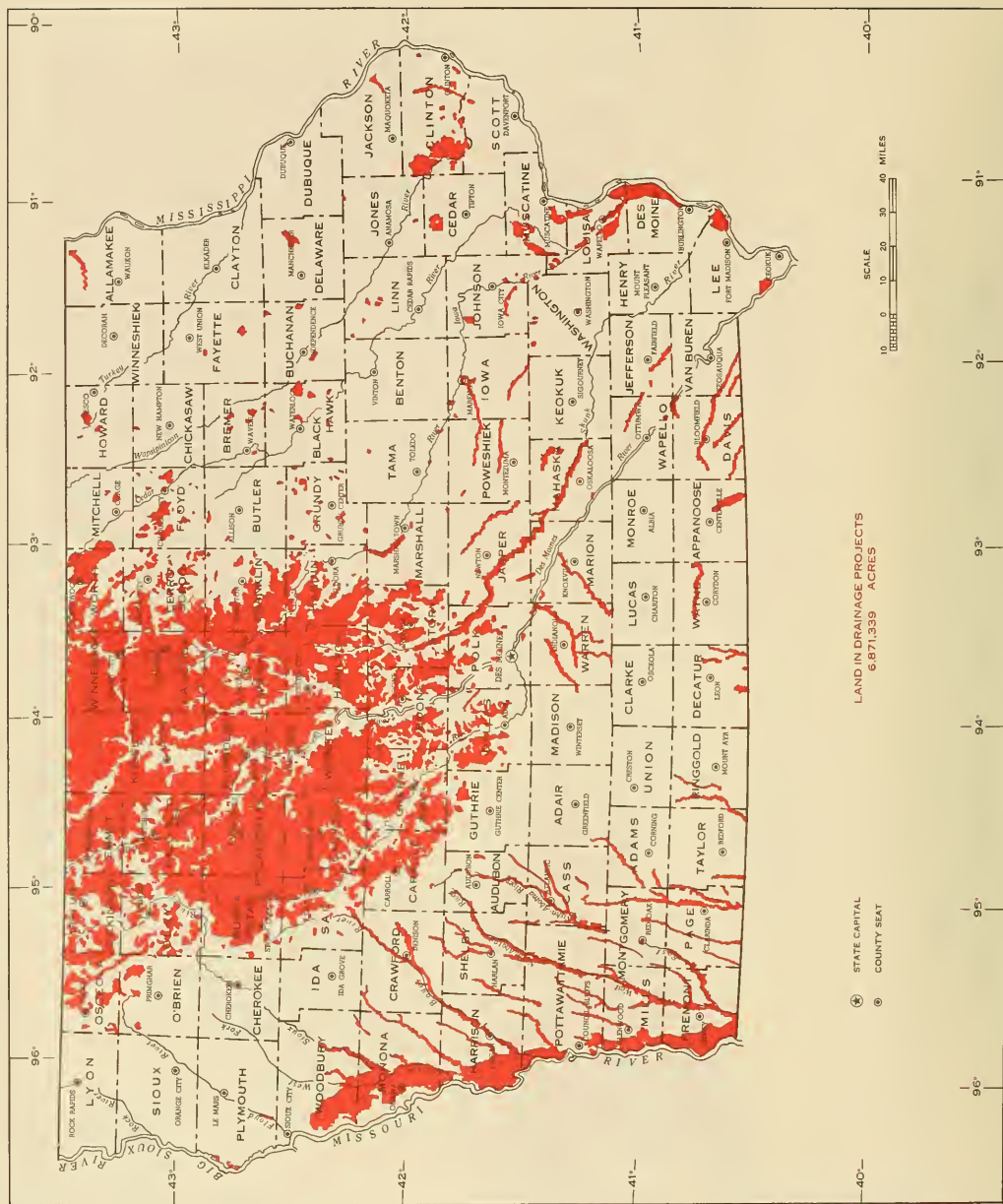




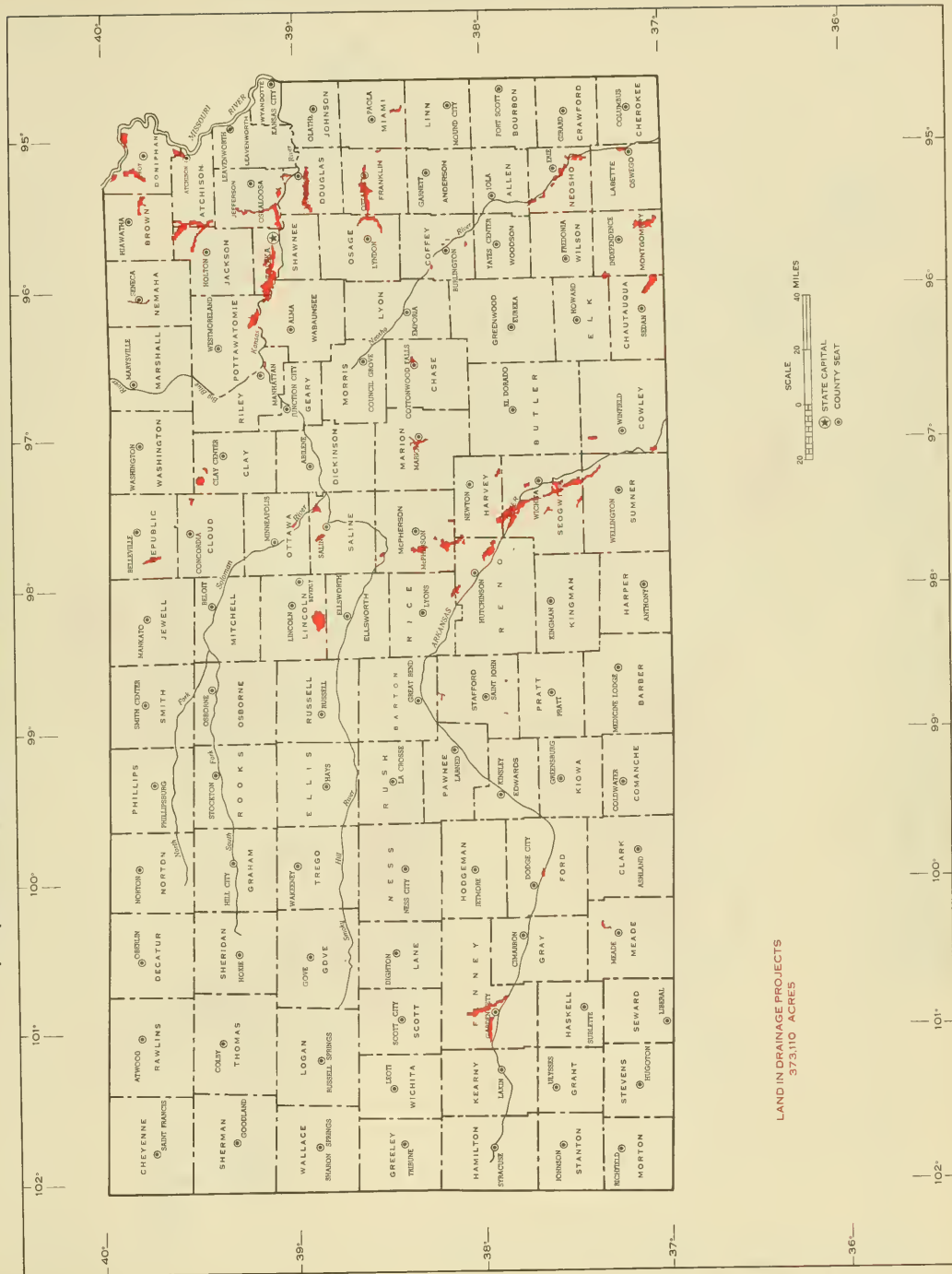
INDIANA—LOCATION OF LAND IN DRAINAGE PROJECTS, 1960
 (Projects benefiting 500 or more acres of agricultural lands)



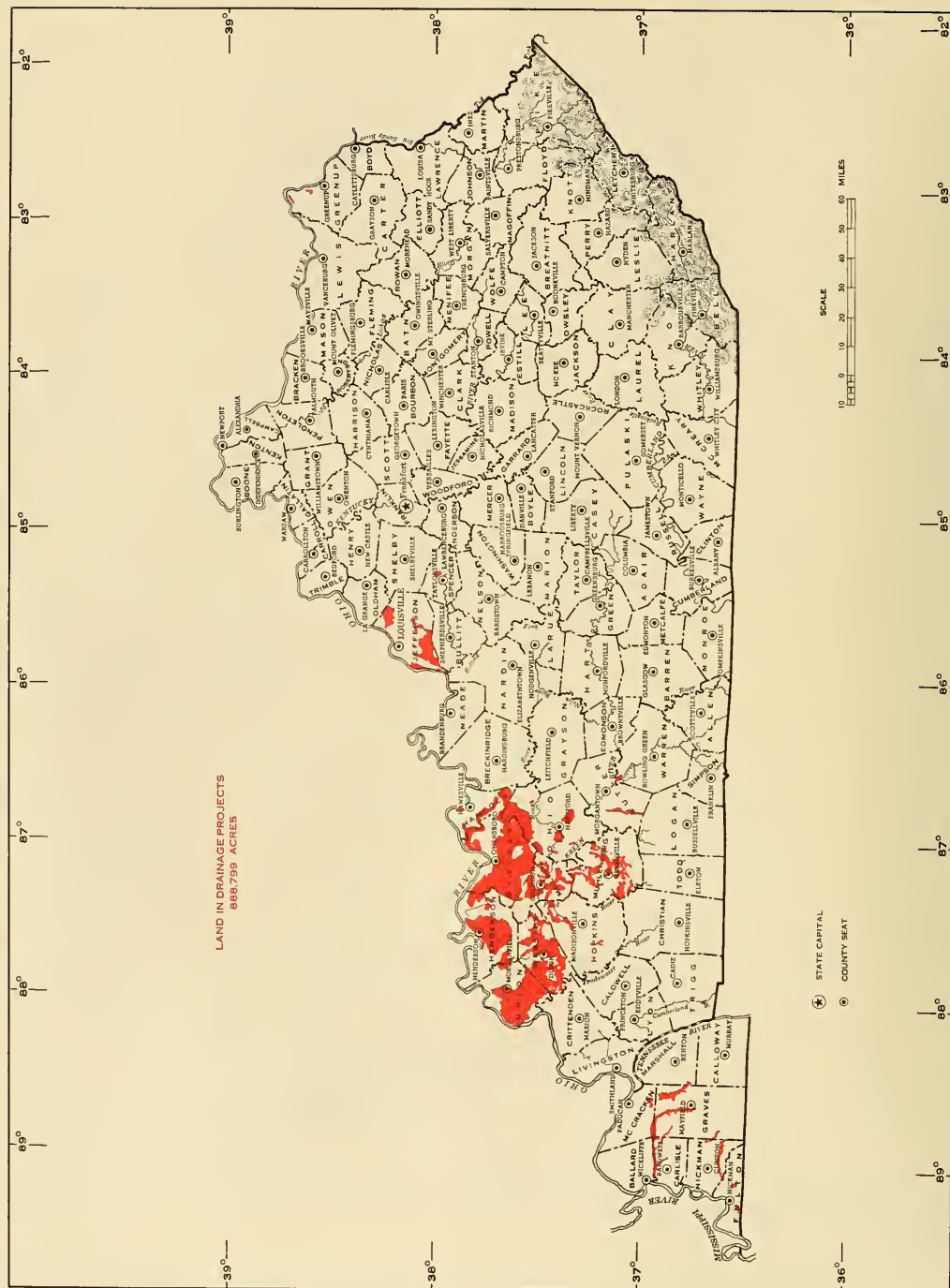
IOWA—LOCATION OF LAND IN DRAINAGE PROJECTS, 1960 (Projects benefiting 500 or more acres of agricultural lands)



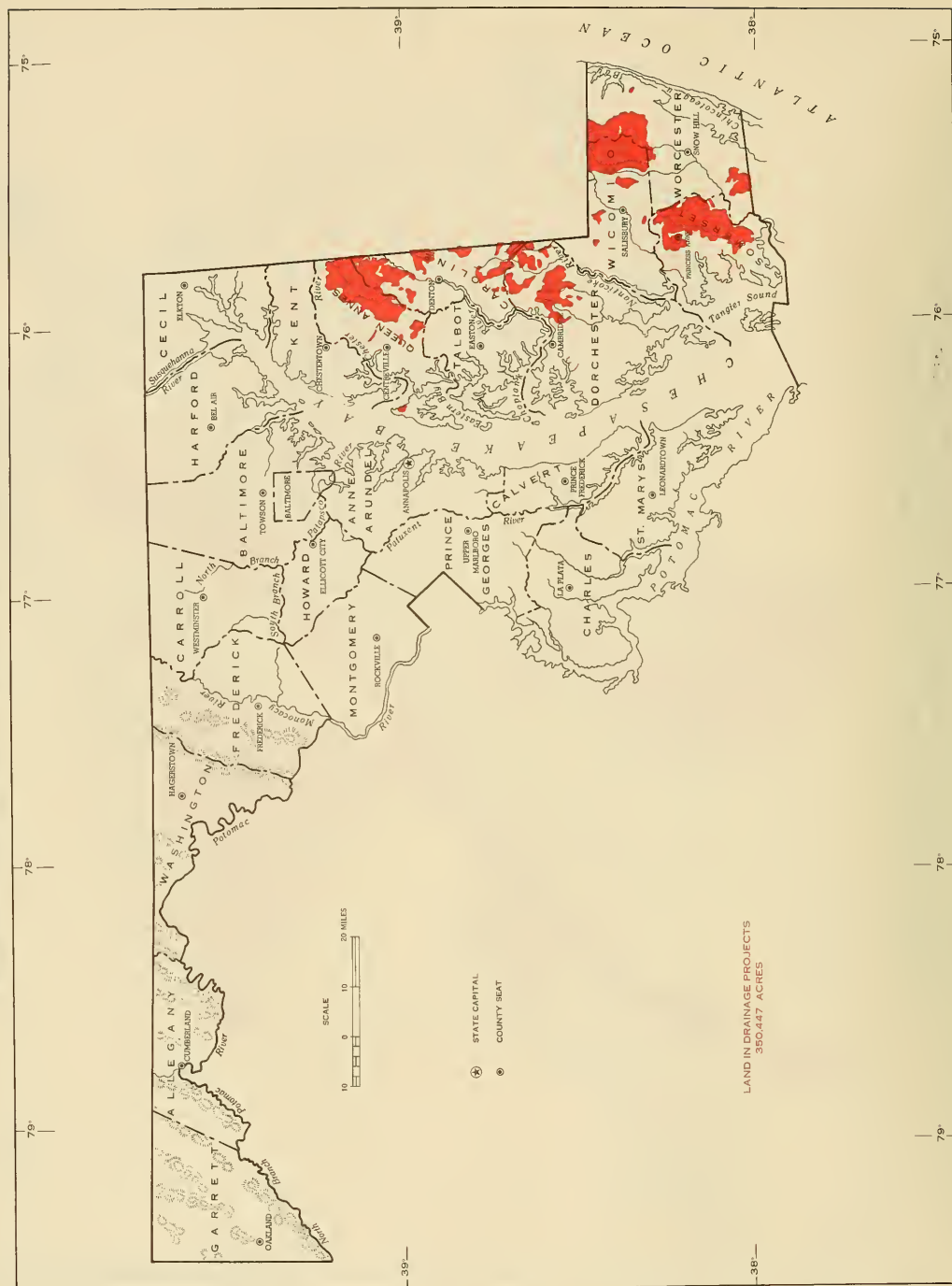
KANSAS—LOCATION OF LAND IN DRAINAGE PROJECTS, 1960 (Projects benefiting 500 or more acres of agricultural lands)



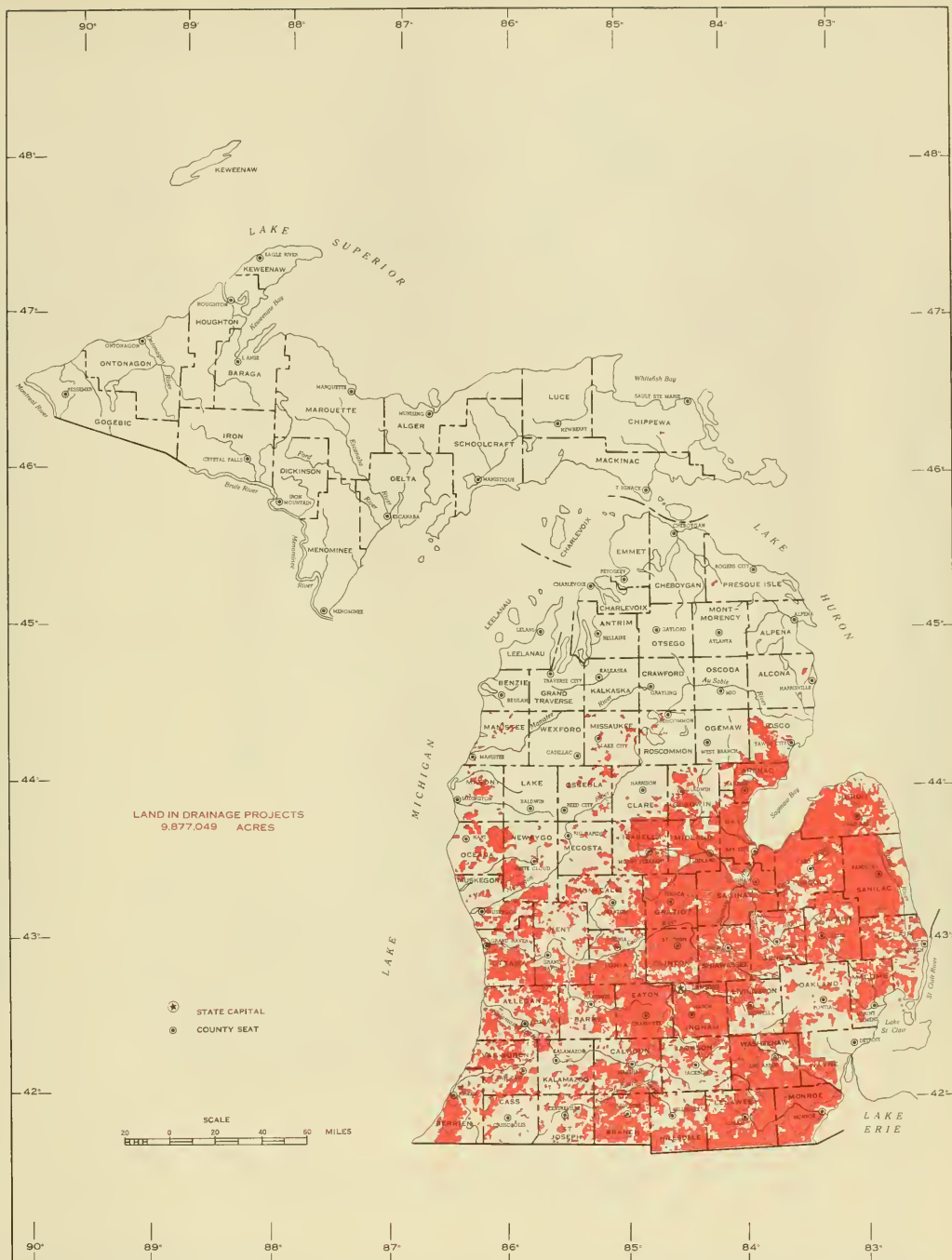
KENTUCKY—LOCATION OF LAND IN DRAINAGE PROJECTS, 1960 (Projects benefiting 500 or more acres of agricultural lands)



MARYLAND—LOCATION OF LAND IN DRAINAGE PROJECTS, 1960 (Projects benefiting 500 or more acres of agricultural lands)

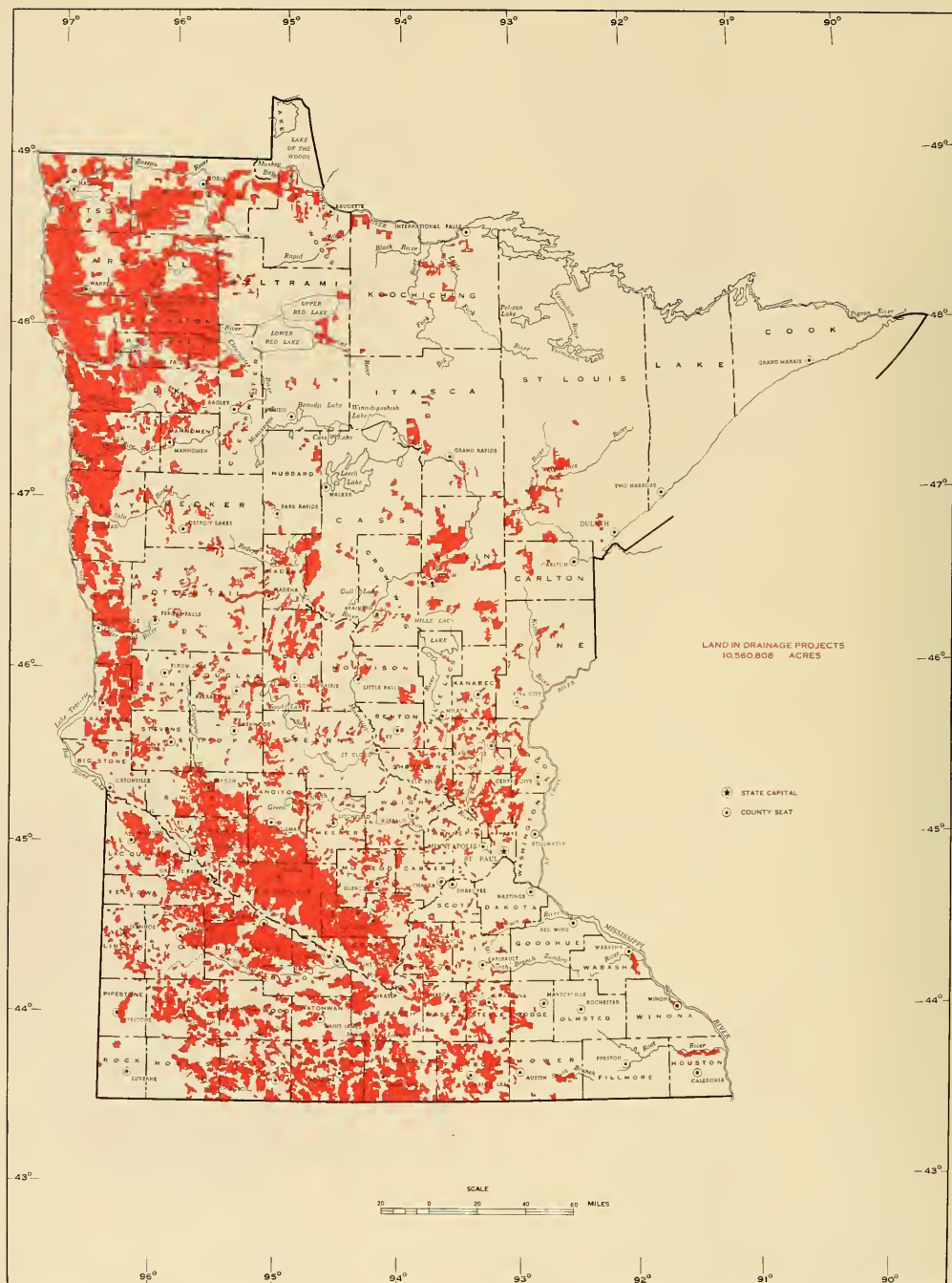


MICHIGAN—LOCATION OF LAND IN DRAINAGE PROJECTS, 1960
(Projects benefiting 500 or more acres of agricultural lands)

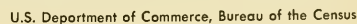


DRAINAGE OF AGRICULTURAL LANDS

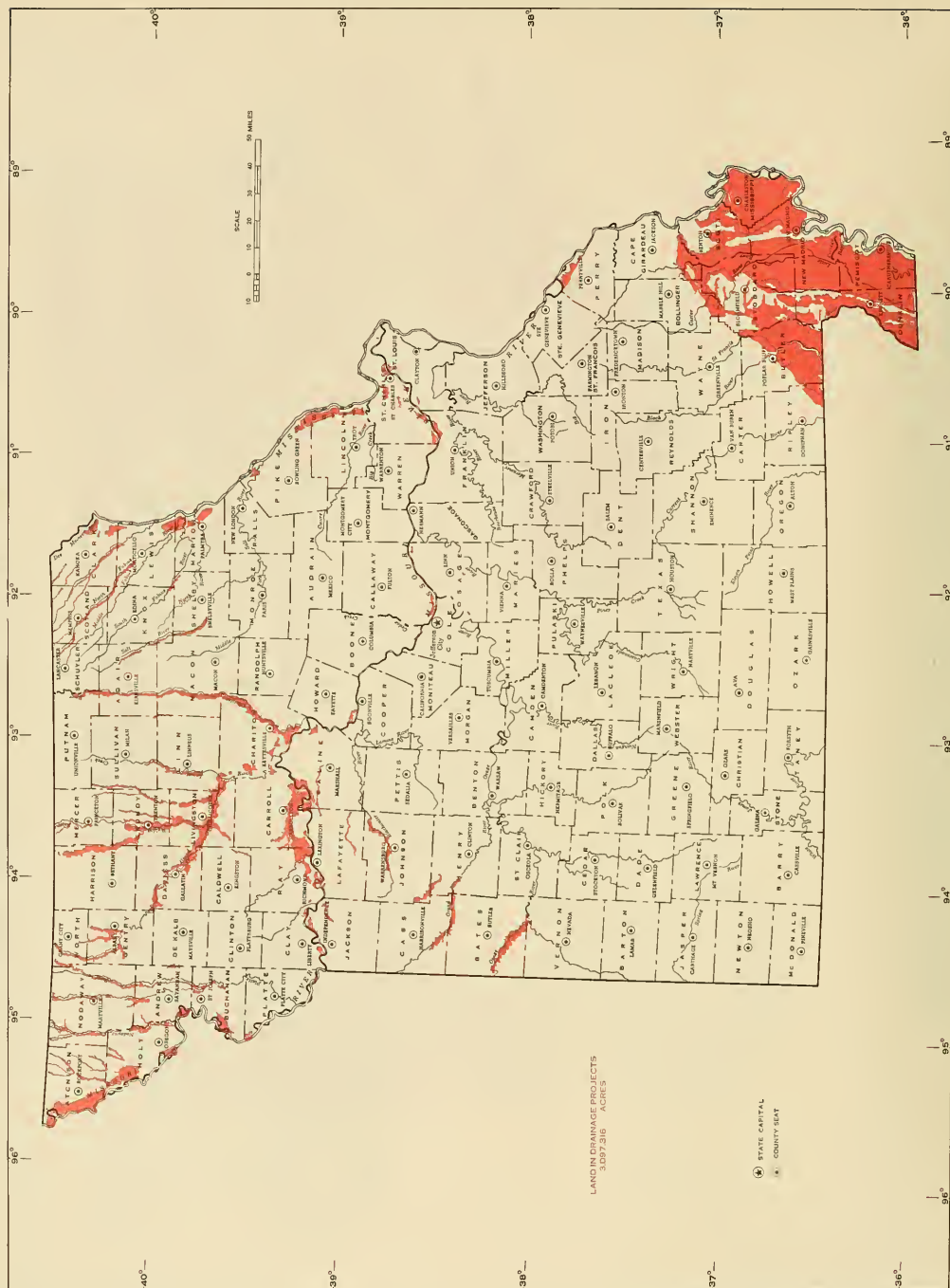
MINNESOTA—LOCATION OF LAND IN DRAINAGE PROJECTS, 1960
(Projects benefiting 500 or more acres of agricultural lands)



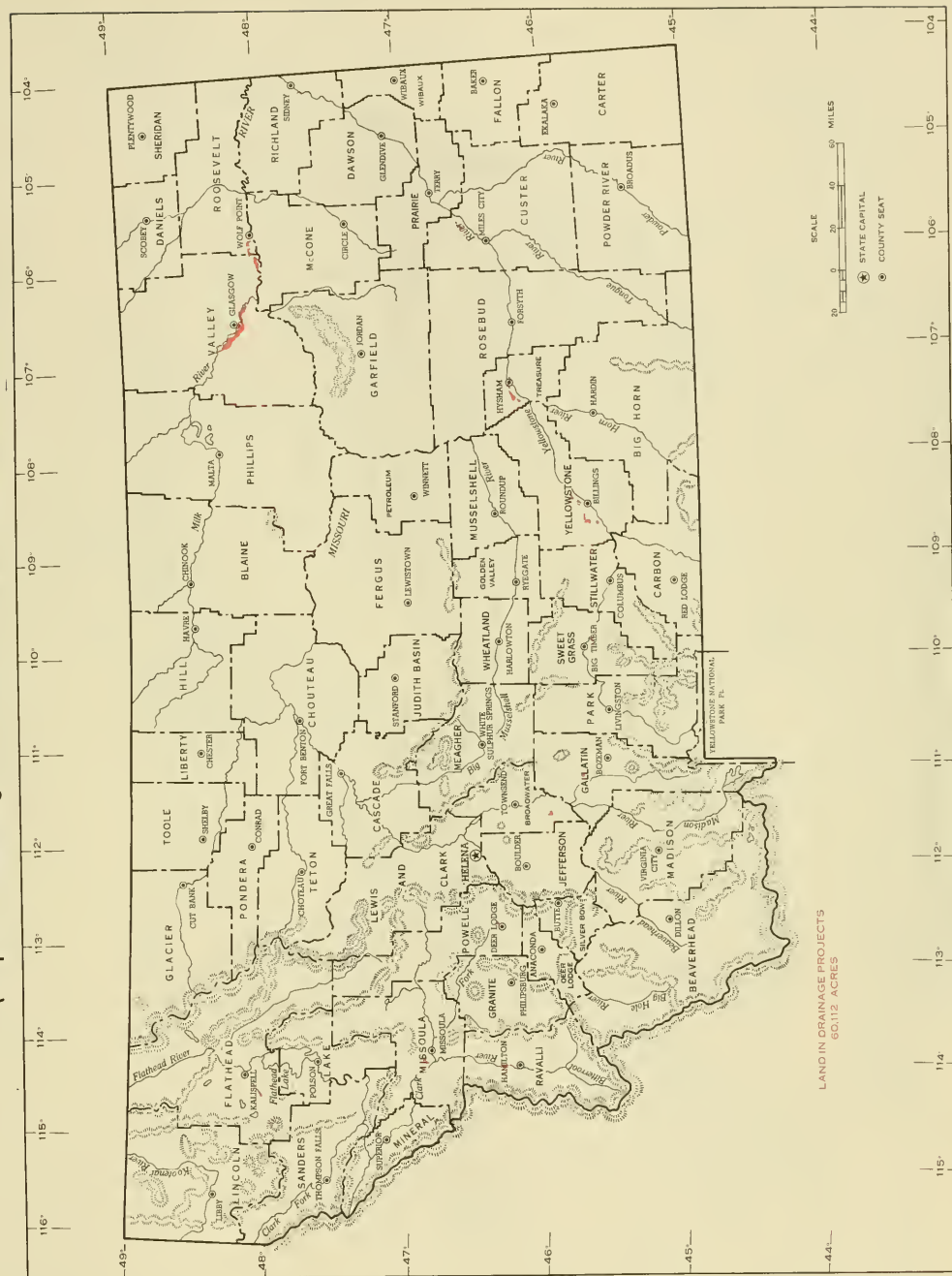
LAND IN DRAINAGE PROJECTS
3,040.607 ACRES



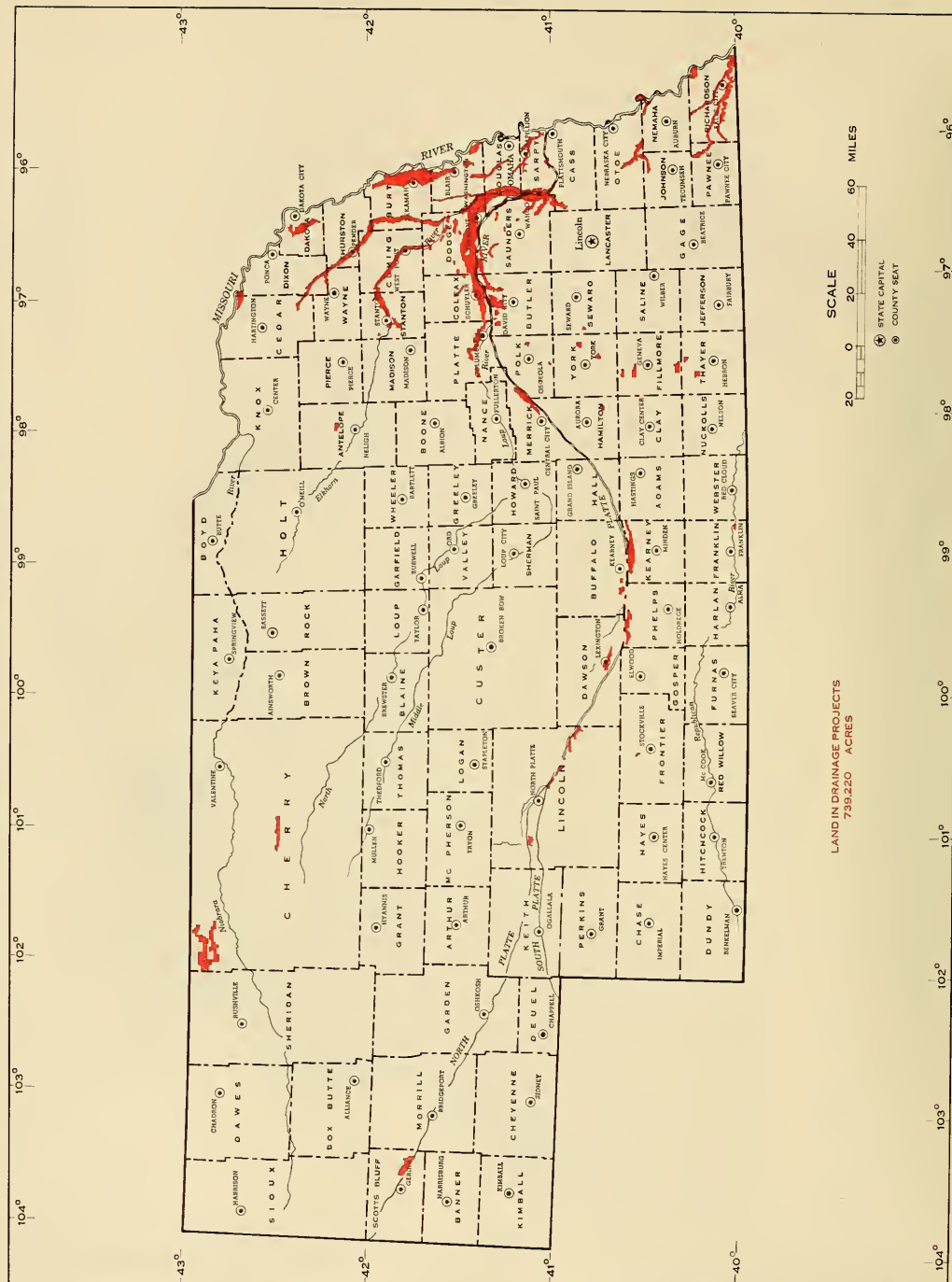
MISSOURI—LOCATION OF LAND IN DRAINAGE PROJECTS, 1960 (Projects benefiting 500 or more acres of agricultural lands)



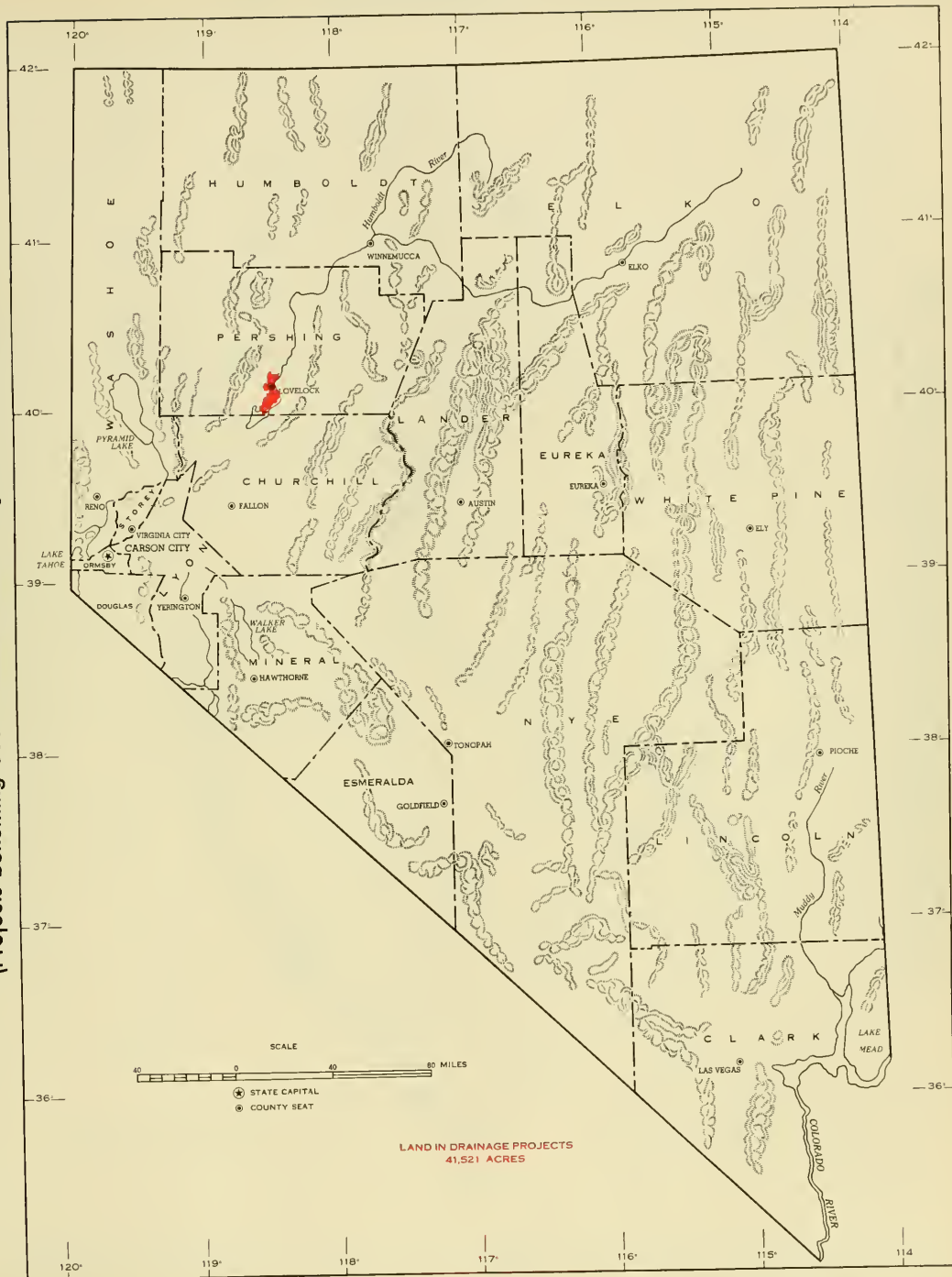
MONTANA—LOCATION OF LAND IN DRAINAGE PROJECTS, 1960 (Projects benefiting 500 or more acres of agricultural lands)



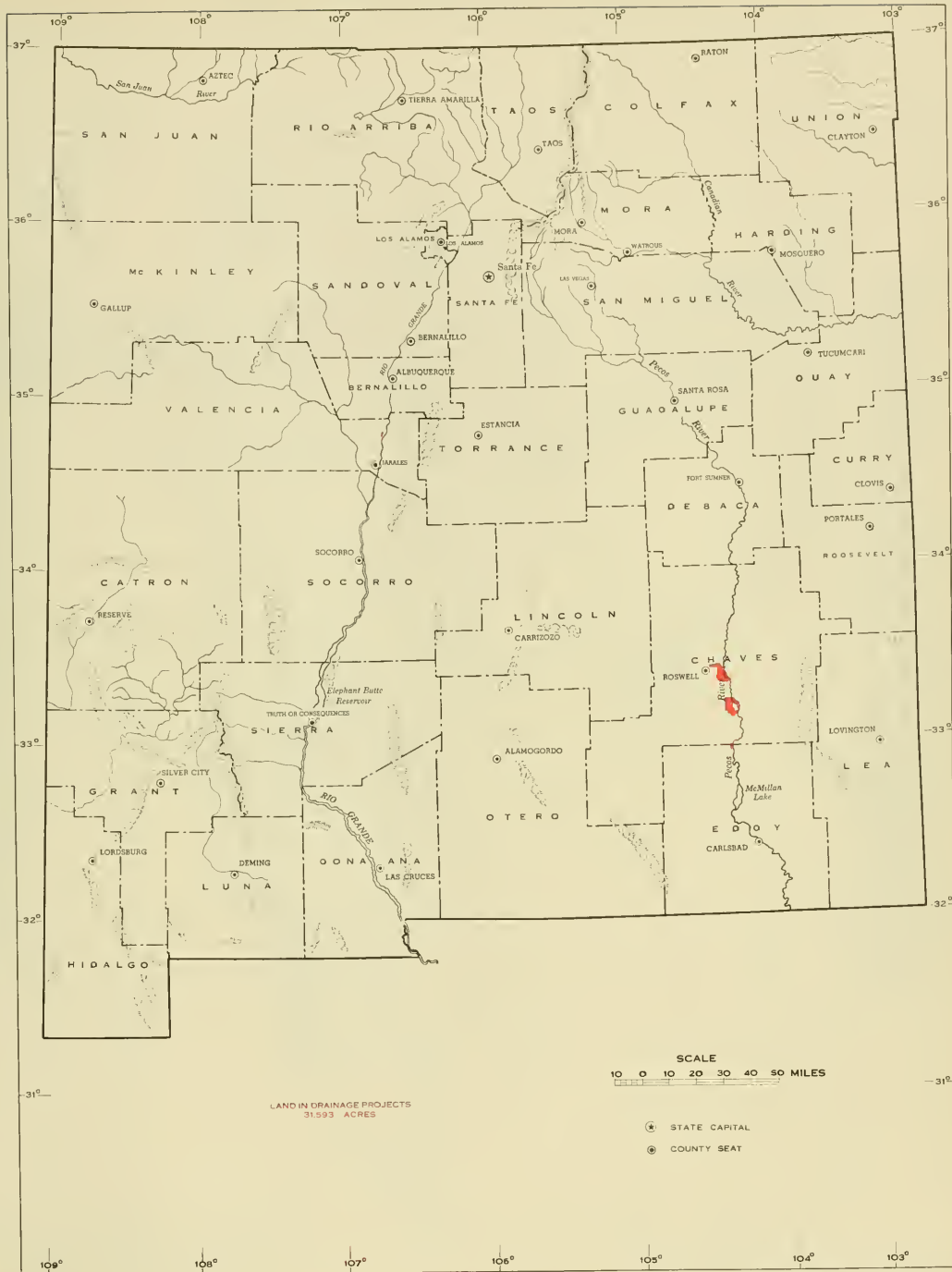
NEBRASKA—LOCATION OF LAND IN DRAINAGE PROJECTS, 1960 (Projects benefiting 500 or more acres of agricultural lands)



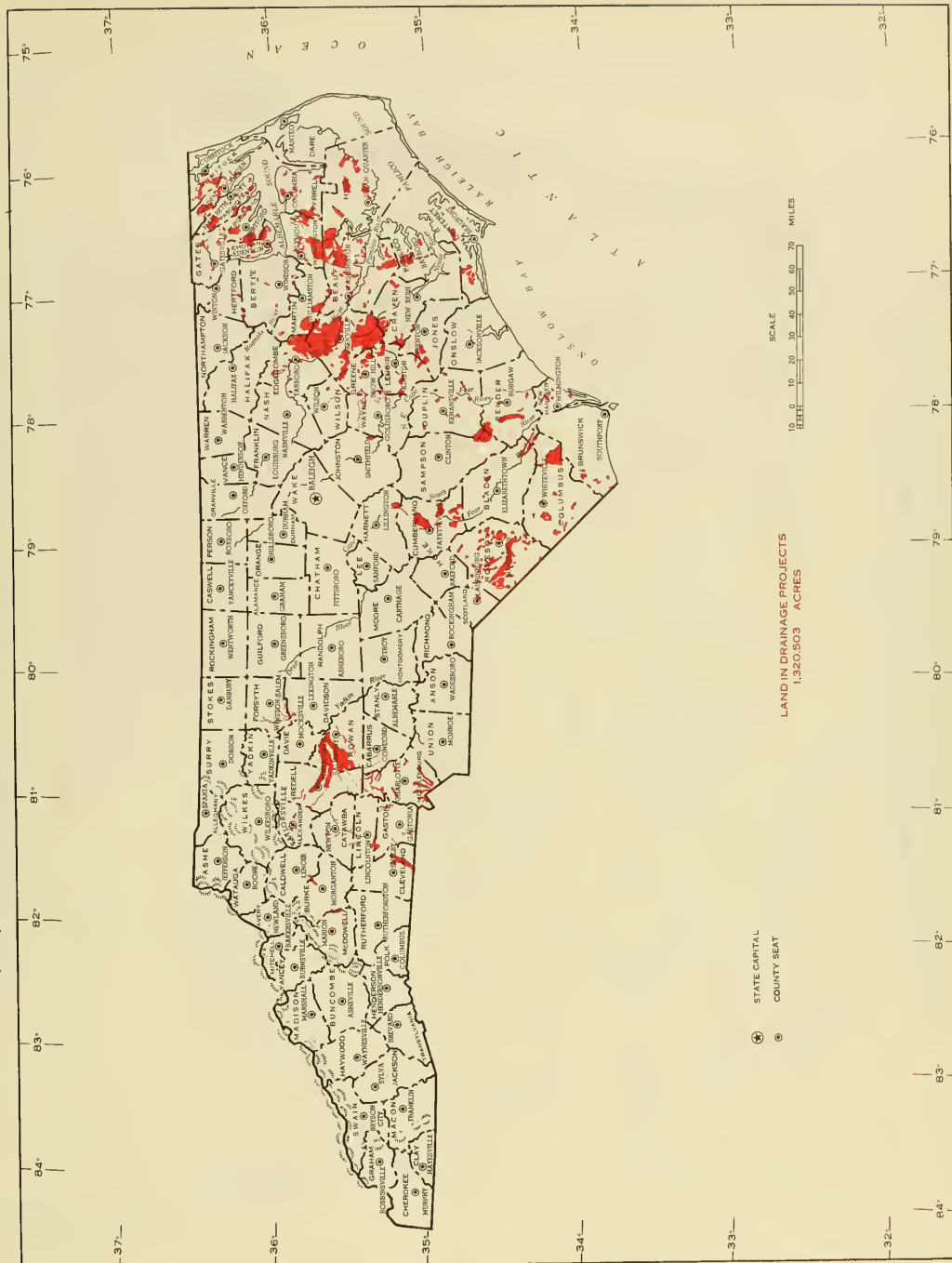
NEVADA—LOCATION OF LAND IN DRAINAGE PROJECTS, 1960
(Projects benefiting 500 or more acres of agricultural lands)



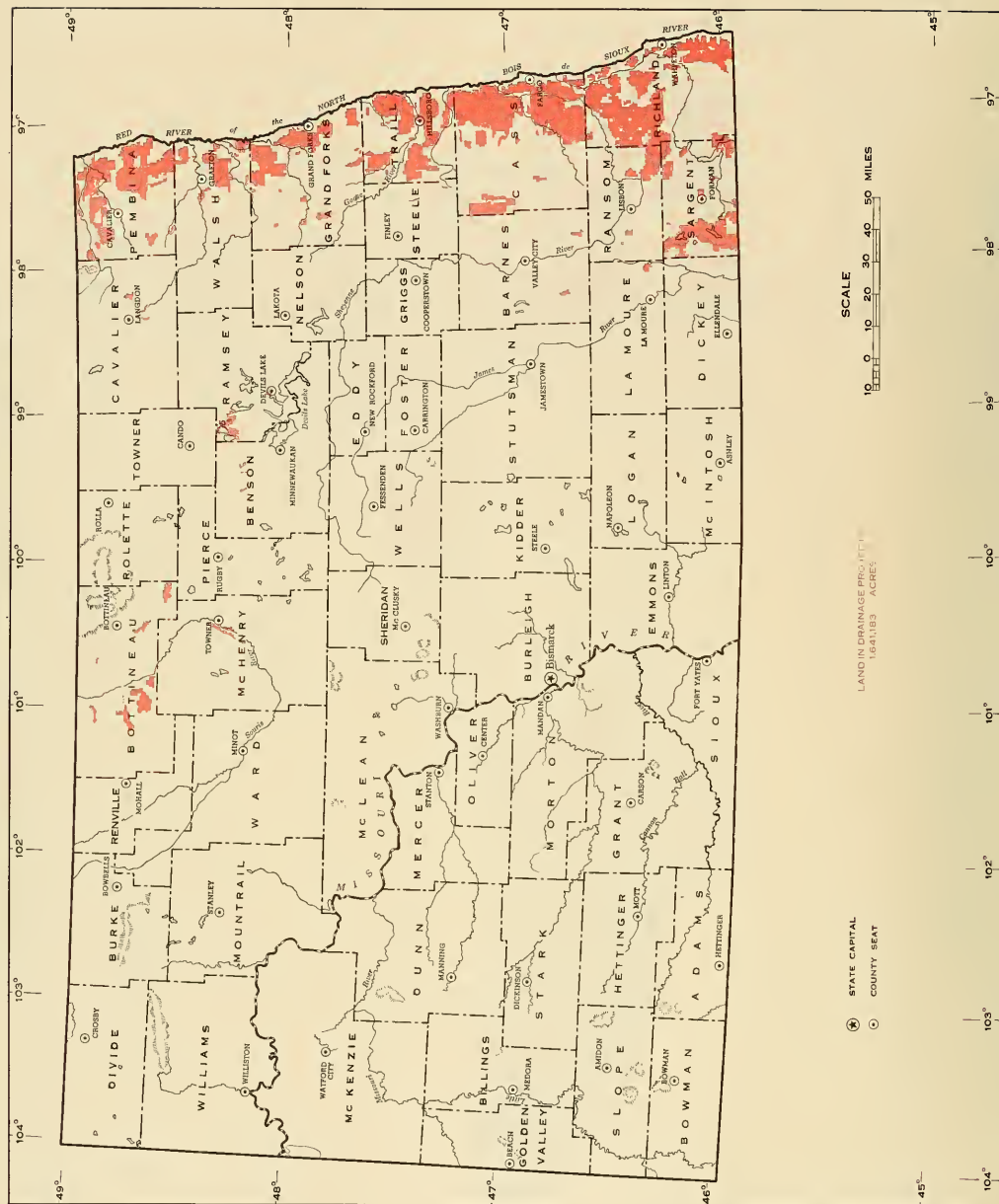
NEW MEXICO—LOCATION OF LAND IN DRAINAGE PROJECTS, 1960
(Projects benefiting 500 or more acres of agricultural lands)



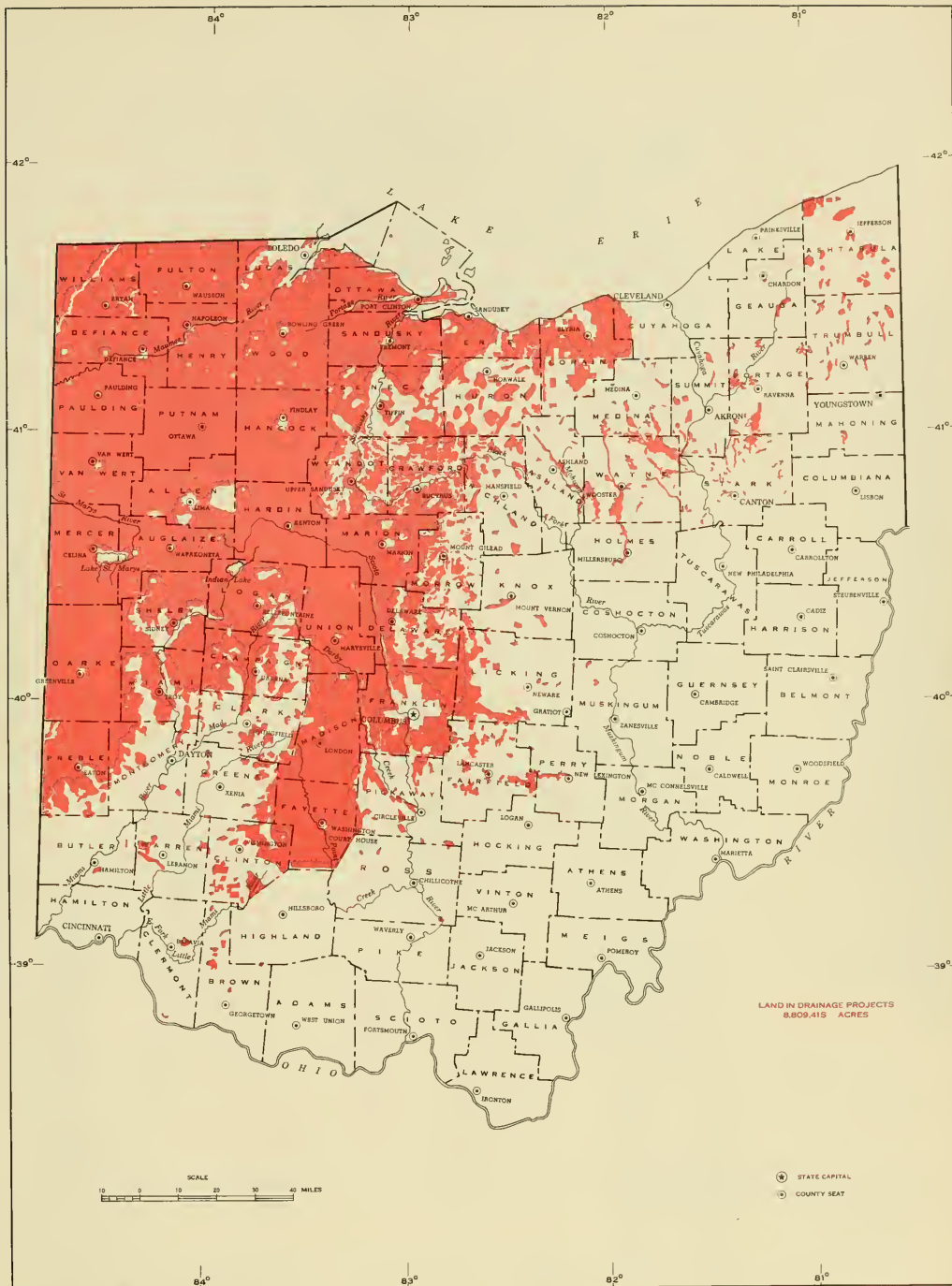
NORTH CAROLINA—LOCATION OF LAND IN DRAINAGE PROJECTS, 1960 (Projects benefiting 500 or more acres of agricultural lands)



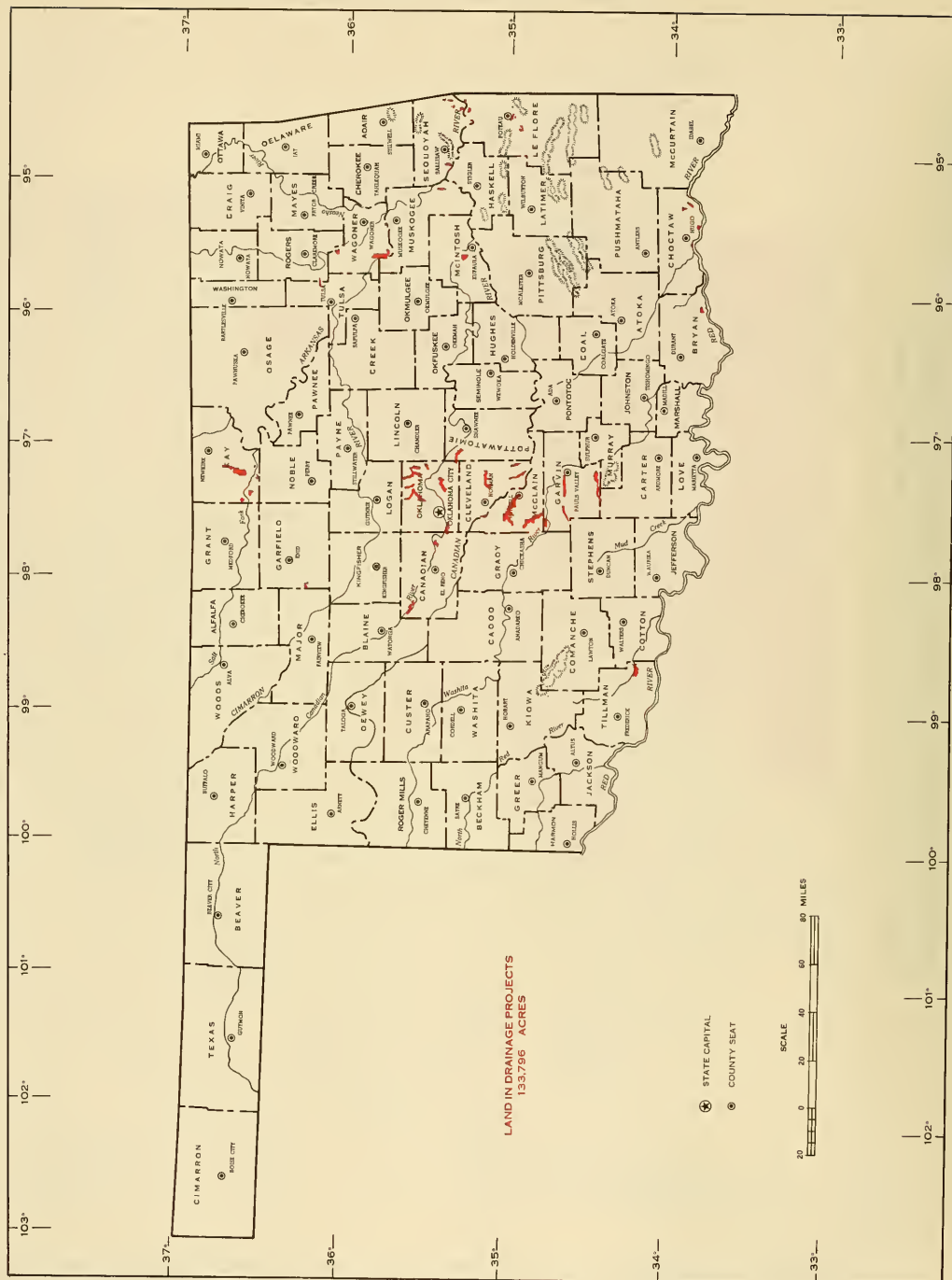
NORTH DAKOTA—LOCATION OF LAND IN DRAINAGE PROJECTS, 1960 (Projects benefiting 500 or more acres of agricultural lands)



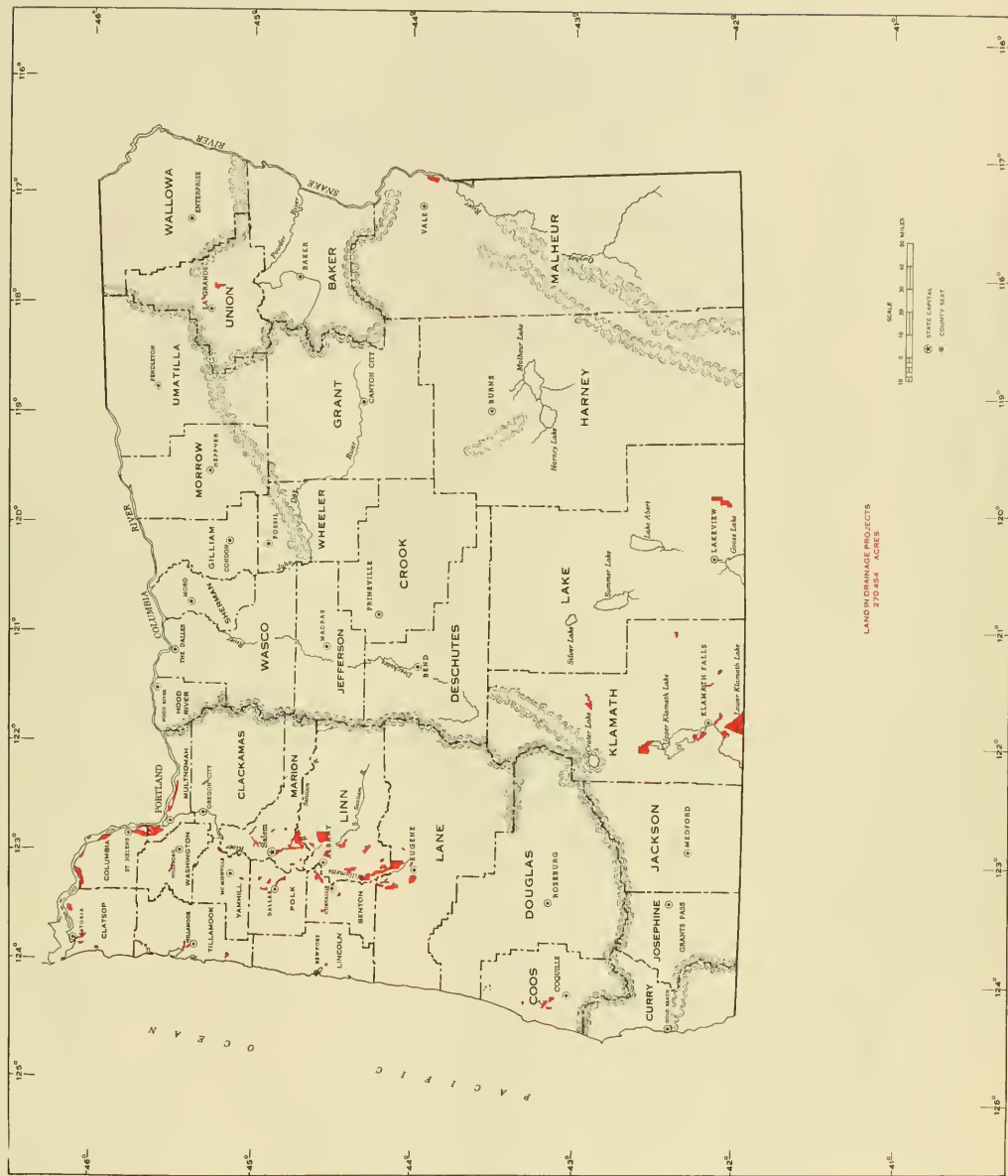
OHIO-LOCATION OF LAND IN DRAINAGE PROJECTS, 1960
(Projects benefiting 500 or more acres of agricultural lands)



OKLAHOMA—LOCATION OF LAND IN DRAINAGE PROJECTS, 1960
(Projects benefiting 500 or more acres of agricultural lands)

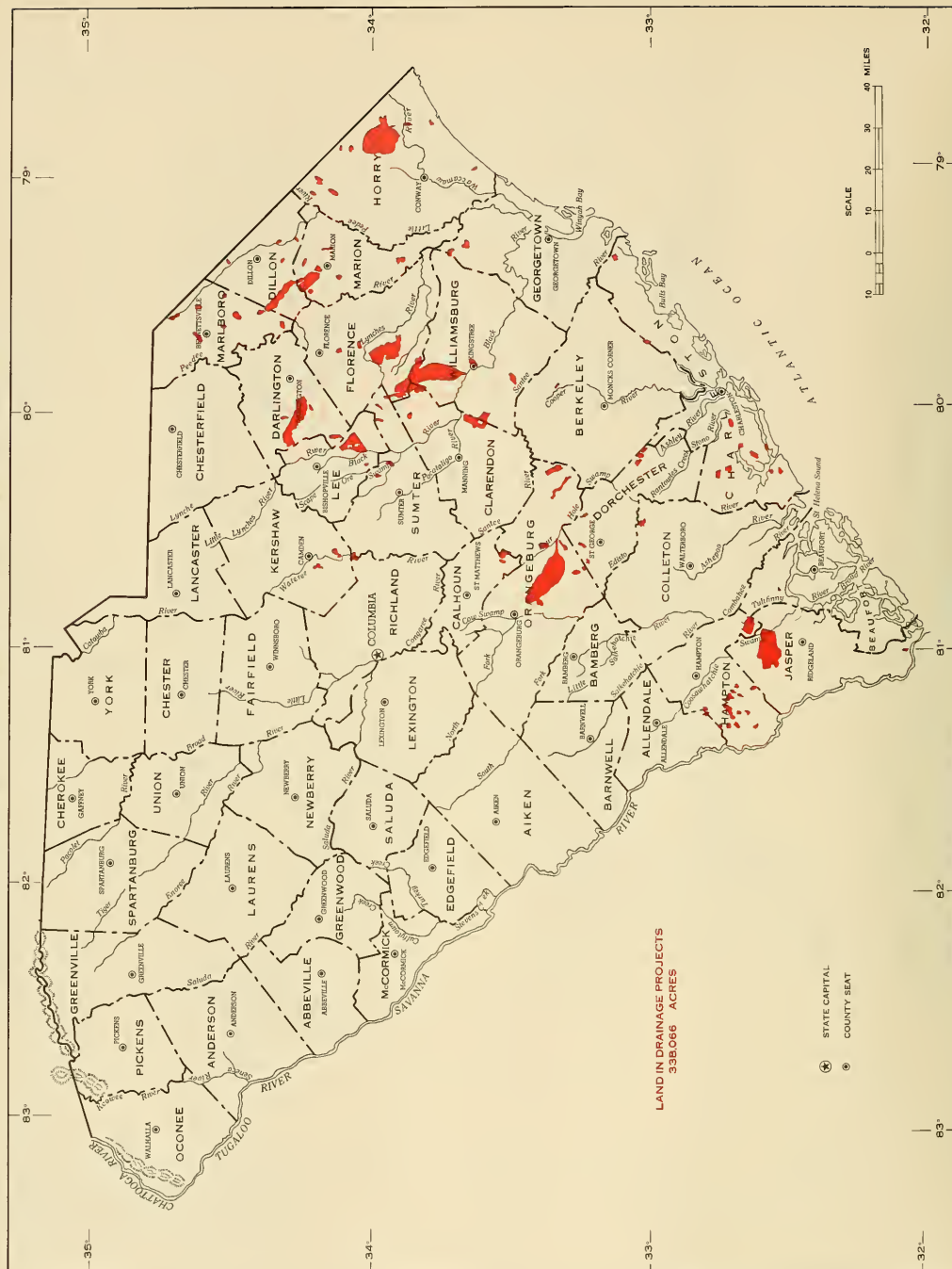


OREGON—LOCATION OF LAND IN DRAINAGE PROJECTS, 1960 (Projects benefiting 500 or more acres of agricultural lands)



U.S. Department of Commerce, Bureau of the Census

SOUTH CAROLINA—LOCATION OF LAND IN DRAINAGE PROJECTS, 1960 **(Projects benefiting 500 or more acres of agricultural lands)**



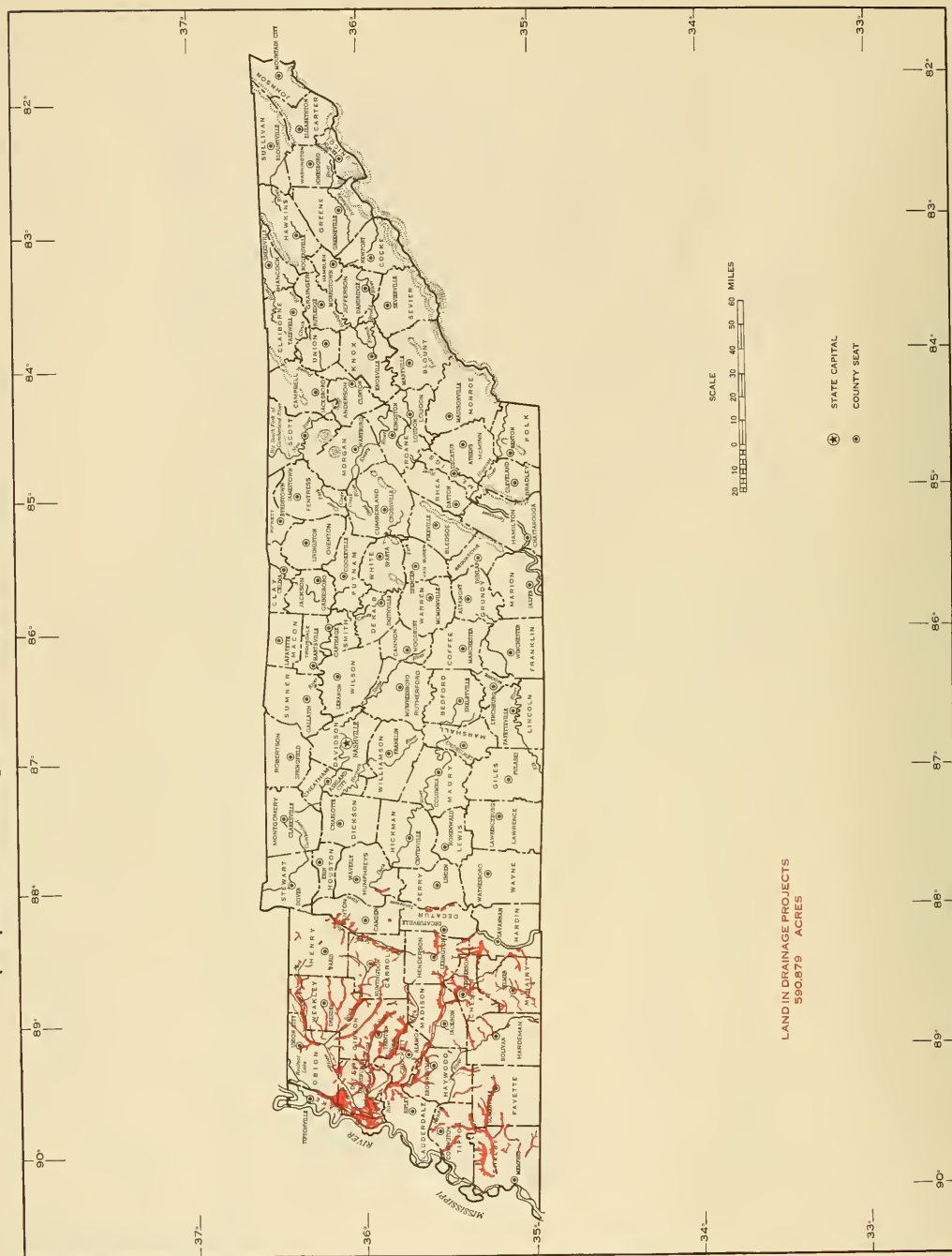
LAND IN DRAINAGE PROJECTS
656,560 ACRES

Legend:
 * STATE CAPITAL
 • COUNTY SEAT

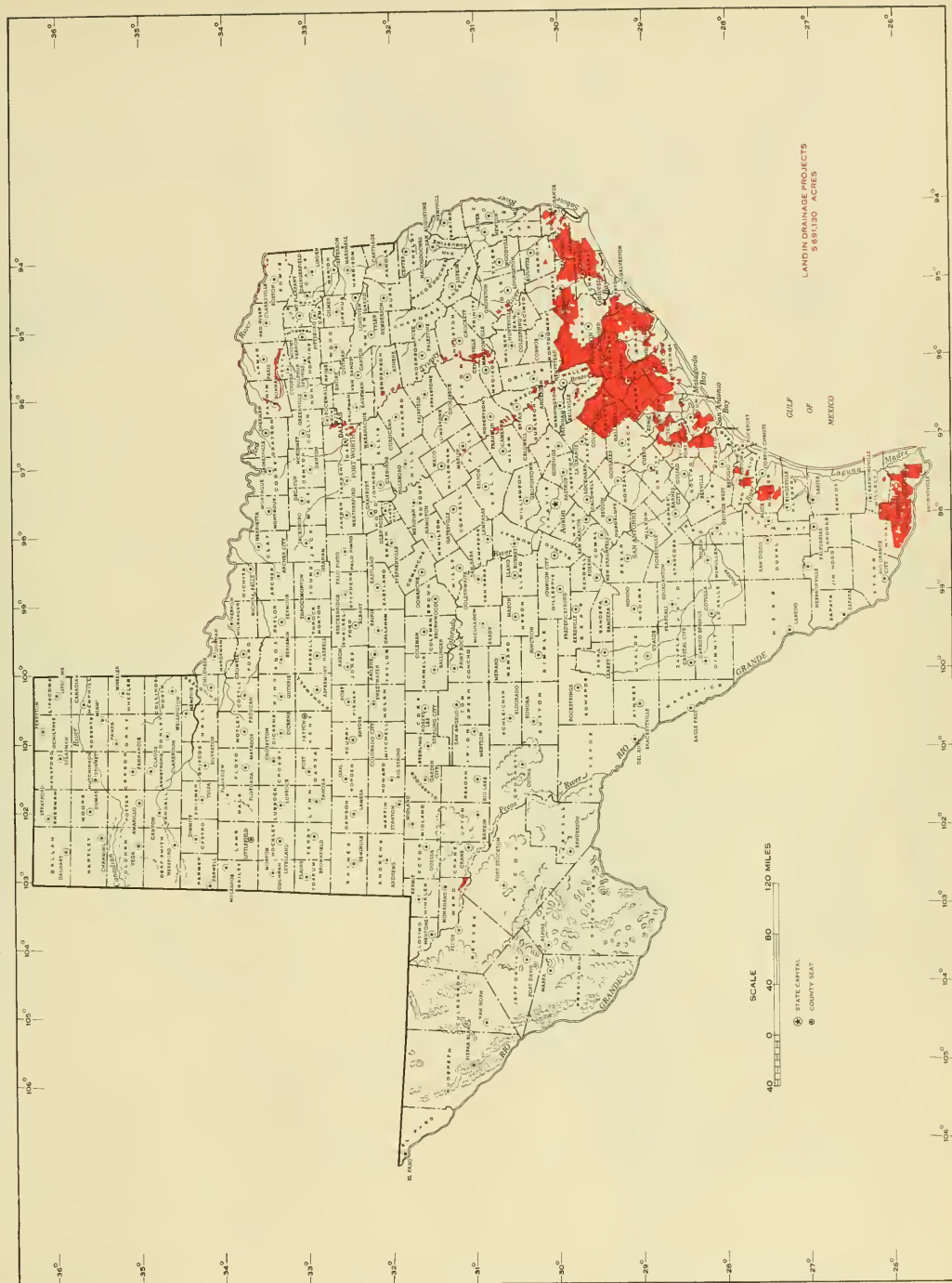
Scale: 0 10 20 30 40 50 MILES

Coordinates: 104° to 102° West, 46° to 42° North

TENNESSEE—LOCATION OF LAND IN DRAINAGE PROJECTS, 1960 (Projects benefiting 500 or more acres of agricultural lands)



TEXAS-LOCATION OF LAND IN DRAINAGE PROJECTS, 1960 (Projects benefiting 500 or more acres of agricultural lands)

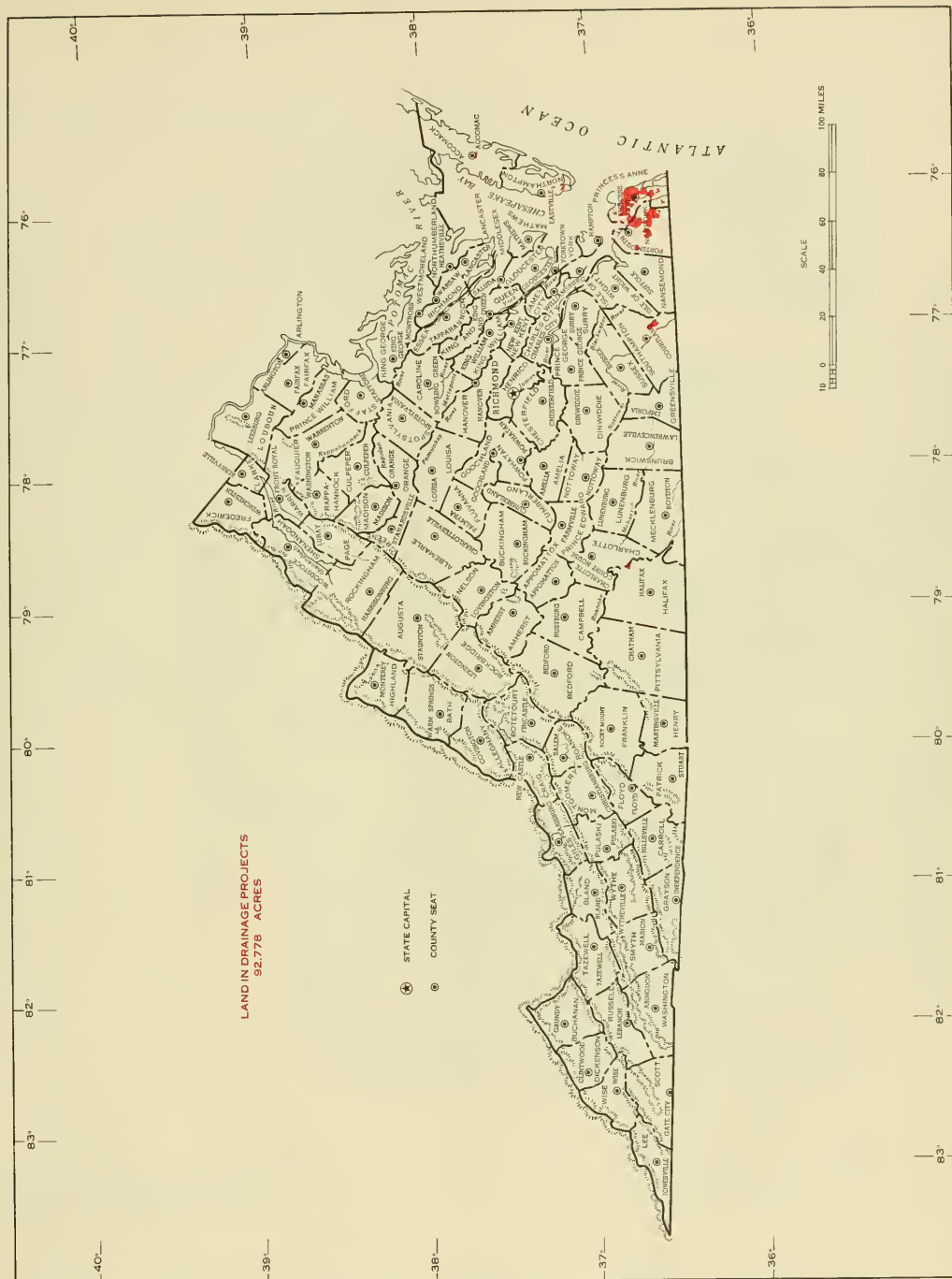


DRAINAGE OF AGRICULTURAL LANDS

UTAH—LOCATION OF LAND IN DRAINAGE PROJECTS, 1960
(Projects benefiting 500 or more acres of agricultural lands)

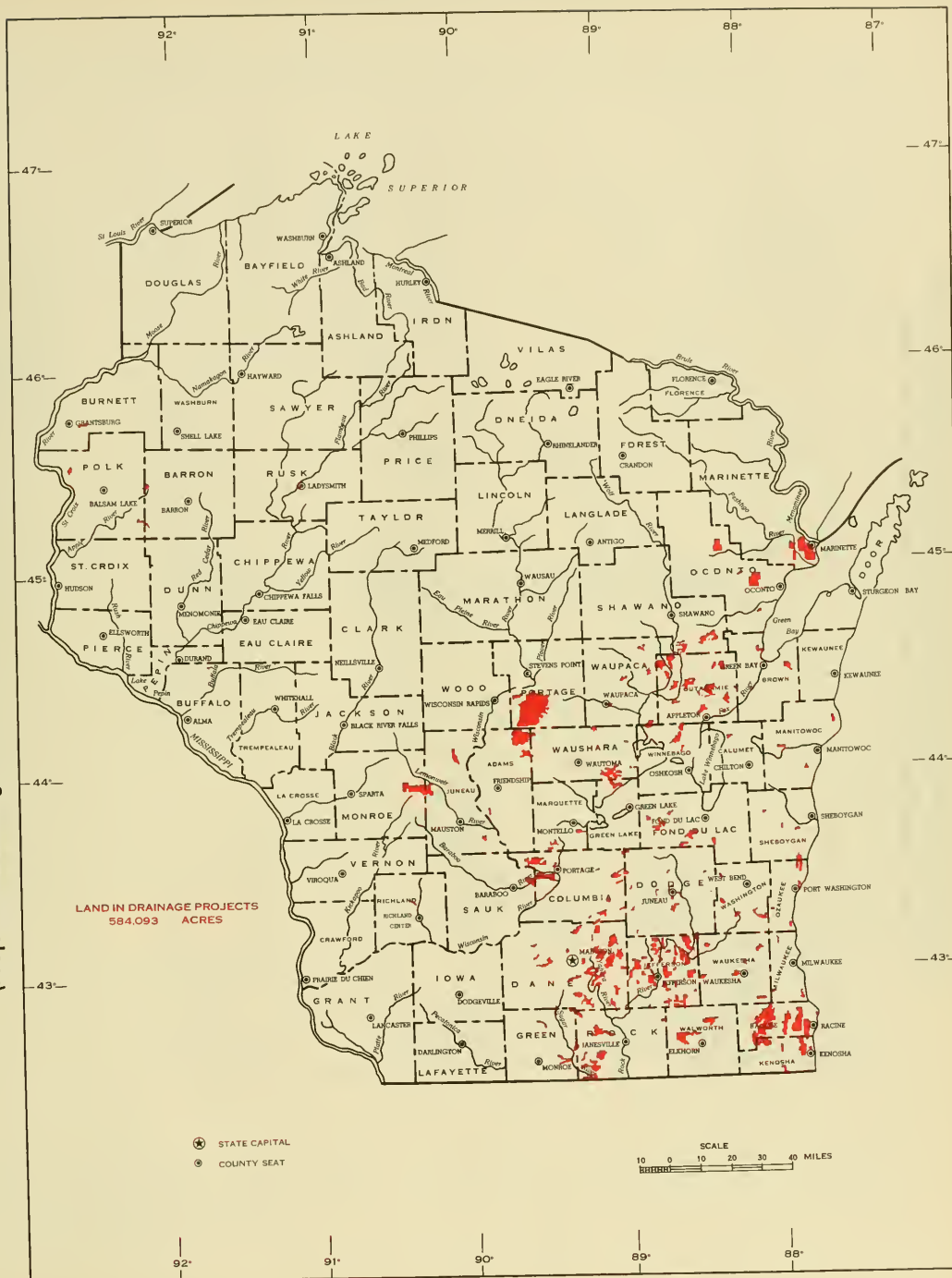


VIRGINIA—LOCATION OF LAND IN DRAINAGE PROJECTS, 1960
(Projects benefiting 500 or more acres of agricultural lands)



LAND IN DRAINAGE PROJECTS
241,182 ACRES

WISCONSIN—LOCATION OF LAND IN DRAINAGE PROJECTS, 1960
(Projects benefiting 500 or more acres of agricultural lands)



WYOMING—LOCATION OF LAND IN DRAINAGE PROJECTS, 1960 (Projects benefiting 500 or more acres of agricultural lands)



STATISTICS FOR STATES

(71)

State Table 1.—DRAINAGE PROJECTS—NUMBER, AREA, COST, AND WORKS, 1920 TO 1960

(See text for comparability of data)

Item	1960 Census	1950 Census	1940 Census	1930 Census	1920 Census
AREA					
Approximate land area.....acres...	32,678,400	32,689,920	32,689,920	32,818,660	32,818,660
Land in farms.....acres...	16,542,730	20,888,784	19,143,391	17,554,635	19,776,856
Drainage projects.....number...	11	10	1	...	...
Total area in drainage projects.....acres served...	69,901	76,671	28,045	...	...
Area not used for agriculture or not drained.....acres served...	4,000	NA	...	...	...
Net area drained and used for agriculture.....acres served...	65,901	NA	128,045	...	...
Drainage established 10 years or more before Census date.....acres served...	64,851	NA	NA	...	...
Drainage established within 10 years of Census date.....acres served...	1,050	NA	NA	...	...
Area served by two or more projects.....acres served...	...	...	...	...	...
PROJECTS BY TYPE OF ORGANIZATION					
Drains owned by one landowner.....number of projects...	1	...	...	...	...
.....acres served...	500	...	...	...	...
Cooperative or mutual drains.....number of projects...	6	7	...	...	...
.....acres served...	33,745	40,735	...	...	...
Legally organized public drains.....number of projects...	4	3	1	...	...
.....acres served...	31,656	35,936	28,045	...	...
PROJECTS BY YEAR STARTED					
Started 10 years or more before Census date.....number of projects...	10	3	1	...	...
.....acres served...	65,401	35,936	28,045	...	...
Started within 10 years of Census date.....number of projects...	1	7	...	...	...
.....acres served...	500	40,735	...	...	...
OPERATIONS, 10-YEAR PERIOD PRECEDING CENSUS DATE					
Cost of drainage works and services.....projects reporting...	6	8	NA	...	...
.....dollars...	31,061	70,223	NA	...	...
New drainage works constructed, enlarged, or installed.....projects reporting...	4	27	NA	...	...
.....cost, dollars...	25,812	258,768	NA	...	...
Open ditches.....projects reporting...	4	7	NA	...	...
.....length, miles...	15.3	66	NA	...	...
Tile or covered drains.....projects reporting...	...	...	NA	...	...
.....length, miles...	...	...	NA	...	...
Levees or dikes.....projects reporting...	...	...	NA	...	...
.....length, miles...	...	...	NA	...	...
Pumps.....projects reporting...	...	NA	NA	...	...
.....number of pumps...	...	NA	NA	...	...
Other (see text).....projects reporting...	...	NA	NA	...	...
Cost of maintenance, operation, repair, and administration.....projects reporting...	5	NA	NA	...	...
.....dollars...	5,249	11,455	NA	...	...
STATUS ON CENSUS DATE					
Capital investment.....dollars...	NA	NA	410,000	...	...
Physical works:					
Open ditches.....length, miles...	NA	NA	42.3	...	...
Tile drains.....length, miles...	NA	NA	...	...	...
Levees and dikes.....length, miles...	NA	NA	...	...	...
Pumping units.....number of units...	NA	...	...	...	...

NA Not available.

¹Not fully comparable. See text.²Cost of new works for lands not previously drained.

DRAINAGE OF AGRICULTURAL LANDS

State Table 2.—DRAINAGE

	Size of project (Based on area of agricultural land in project)	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
			Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
					Projects reporting	Acres	Projects reporting	Acres
1	All projects.....	11	65,901	...	10	64,851	4	1,050
2	500 to 999 acres.....	6	3,749	...	5	2,699	4	1,050
3	1,000 to 1,999 acres.....	...	...	...	...	...	...	...
4	2,000 to 4,999 acres.....	3	11,271	...	3	11,271	...	...
5	5,000 to 9,999 acres.....	...	...	...	...	...	...	...
6	10,000 to 19,999 acres.....	...	...	...	...	...	...	...
7	20,000 to 49,999 acres.....	2	50,881	...	2	50,881	...	...
8	50,000 to 99,999 acres.....	...	...	...	...	...	...	...
9	100,000 or more acres.....	...	...	...	...	...	...	...

State Table 3.—DRAINAGE PROJECTS, 1960,

	Type of organization	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
			Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
					Projects reporting	Acres	Projects reporting	Acres
1	All projects.....	11	65,901	...	10	64,851	4	1,050
2	Drains owned by one landowner.....	1	500	...	...	...	1	500
3	Cooperative or mutual drains.....	6	33,745	...	6	33,195	3	550
4	Legally organized public drains.....	4	31,656	...	4	31,656	...	...

State Table 4.—DRAINAGE PROJECTS, 1960,

	Year of organization	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
			Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
					Projects reporting	Acres	Projects reporting	Acres
1	All projects.....	11	65,901	...	10	64,851	4	1,050
2	1950-1959.....	1	500	...	...	...	1	500
3	Prior to 1950.....	10	65,401	...	10	64,851	3	550

PROJECTS, 1960, BY SIZE

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959								
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	
6	31,061	4	25,812	4	15.3	...	...	...	...	...	...	...
4	27,512	4	25,812	4	15.3	...	...	...	...	...	...	...
...
1	2,809	...	...	...	...	...	...	...	...	...	...	...
...
...
1	740	...	...	...	...	...	...	...	...	...	...	...
...
...
...

BY TYPE OF ORGANIZATION

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959								
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	
6	31,061	4	25,812	4	15.3	...	...	...	...	...	...	...
1	5,912	1	5,312	1	2.3	...	...	...	...	...	...	...
3	21,600	3	20,500	3	13.0	...	...	...	...	...	...	...
2	3,549	...	...	...	...	...	...	...	...	...	...	...

BY YEAR OF ORGANIZATION

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959								
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	
6	31,061	4	25,812	4	15.3	...	...	...	...	...	...	...
1	5,912	1	5,312	1	2.3	...	...	...	...	...	...	...
5	25,149	3	20,500	3	13.0	...	...	...	...	...	...	...

DRAINAGE OF AGRICULTURAL LANDS

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

	Item and Census year	The State	Clay	Colbert	Fayette	Hale	Lamar	Madison	Marengo	Marion	Marshall	Mobile	Perry	Tusca- loosa	
AREA															
1	Approximate land area.....	acres 1960...	32,678,400	385,920	394,240	401,280	424,328	387,200	513,920	625,280	475,520	365,440	794,880	469,760	857,600
2	Land in farms.....	acres 1959...	16,542,730	130,071	207,874	190,787	275,604	168,897	370,067	371,151	205,076	219,018	186,699	286,471	263,212
3	Drainage projects.....	number 1960...	11	1	1	1	1	1	1	2	1	2	1	1	1
4		1950...	10	1	...	1	1	2	1	2	1	2	...	1	1
5	Total area in drainage projects ¹	acres served 1960...	69,901	849	3,200	14,045	11,596	14,000	500	15,680	3,911	1,400	500	3,720	500
6		1950...	76,671	599	...	14,045	11,596	17,980	500	15,680	3,911	1,100	...	3,720	7,540
7	Area not used for agriculture or not drained.....	acres served 1960...	4,000	...	...	...	4,000	...	...	...	...	...	...	...	...
8	Net area drained and used for agriculture.....	acres served 1960...	65,901	849	3,200	14,045	11,596	10,000	500	15,680	3,911	1,400	500	3,720	500
9	Drainage established before 1950.....	acres served 1960...	64,851	599	3,200	14,045	11,596	10,000	500	15,680	3,911	1,100	...	3,720	500
10	Area added, 1950-1959.....	acres served 1960...	1,050	250	...	...	...	...	...	...	...	300	500	...	...
11	Area served by two or more projects.....	acres served 1960...	...	...	...	...	...	...	...	...	...	...	...	...	...
PROJECTS, 1960, BY TYPE OF ORGANIZATION															
12	Drains owned by one landowner.....	number of projects...	1	...	...	...	...	...	...	...	...	1	...	...	...
13		acres served ² ...	500	...	...	...	...	...	...	...	...	500	...	...	...
14	Cooperative or mutual drains.....	number of projects...	6	1	...	...	1	...	1	2	...	2	...	1	...
15		acres served ² ...	33,745	849	...	...	11,596	...	500	15,680	...	1,400	...	3,720	...
16	Legally organized public drains.....	number of projects...	4	...	1	1	...	1	...	...	1	...	...	...	1
17		acres served ² ...	31,656	...	3,200	14,045	...	10,000	...	...	3,911	...	...	...	500
PROJECTS, 1960, BY YEAR STARTED															
18	1950-1959.....	number of projects...	1	...	...	...	...	...	...	...	...	1	...	...	...
19		acres served ² ...	500	...	...	...	...	...	...	...	...	500	...	...	...
20	Prior to 1950.....	number of projects...	10	1	1	1	1	1	1	2	1	2	...	1	1
21		acres served ² ...	65,401	849	3,200	14,045	11,596	10,000	500	15,680	3,911	1,400	...	3,720	500
DRAINAGE OPERATIONS, 1950-1959 ³															
22	Cost of drainage works and services.....	projects reporting...	6	1	1	1	...	1	...	...	...	2	1	...	...
23		dollars...	31,061	11,100	2,809	370	...	370	...	...	...	10,500	5,912	...	...
24	New drainage works constructed, enlarged, or installed.....	projects reporting...	4	1	...	...	...	...	...	...	...	2	1	...	...
25		dollars...	25,812	11,000	...	...	...	...	...	...	...	9,500	5,312	...	...
26	Open ditches.....	projects reporting...	4	1	...	...	...	...	...	...	...	2	1	...	...
27		length, miles...	15.3	5.0	...	...	...	...	...	...	...	8.0	2.3	...	...
28	Tile or covered drains.....	projects reporting...	...	...	...	...	...	...	...	...	...	...	...	...	...
29		length, miles...	...	...	...	...	...	...	...	...	...	...	...	...	...
30	Levees or dikes.....	projects reporting...	...	...	...	...	...	...	...	...	...	...	...	...	...
31		length, miles...	...	...	...	...	...	...	...	...	...	...	...	...	...
32	Pumps.....	projects reporting...	...	...	...	...	...	...	...	...	...	...	...	...	...
33		number of pumps...	...	...	...	...	...	...	...	...	...	...	...	...	...
34	Other (see text).....	projects reporting...	...	...	...	...	...	...	...	...	...	...	...	...	...
35	Cost of maintenance, operation, repair, and administration.....	projects reporting...	5	1	1	1	...	1	...	...	...	1	1	...	...
36		dollars...	5,249	100	2,809	370	...	370	...	...	...	1,000	600	...	...

¹Land served by two or more projects counted only once.²Acres served by two projects are included for each project. See text.³Includes projects taken over by another project prior to 1950. See text.

State Table 1.—DRAINAGE PROJECTS—NUMBER, AREA, COST, AND WORKS, 1920 TO 1960

[See text for comparability of data.]

Item	1960 Census	1950 Census	1940 Census	1930 Census	1920 Census
AREA					
Approximate land area.....acres...	33,599,360	33,712,000	33,744,000	33,616,000	33,616,000
Land in farms.....acres...	16,458,515	18,871,244	18,044,542	16,052,962	17,456,750
Drainage projects.....number...	598	844	250	NA	NA
Total area in drainage projects.....acres served...	4,870,106	4,701,095	4,592,738	4,631,155	3,479,591
Area not used for agriculture or not drained.....acres served...	189,140	NA	NA	NA	NA
Net area drained and used for agriculture.....acres served...	4,680,966	NA	¹ 3,100,342	² 2,940,035	NA
Drainage established 10 years or more before Census date.....acres served...	4,447,703	NA	NA	NA	NA
Drainage established within 10 years of Census date.....acres served...	233,263	NA	NA	NA	NA
Area served by two or more projects.....acres served...	917,881	629,514	1,040,561	1,133,653	363,221
PROJECTS BY TYPE OF ORGANIZATION					
Drains owned by one landowner.....number of projects...	167	² 15	NA	NA	NA
.....acres served...	236,104	² 67,790	84,358	40,660	26,900
Cooperative or mutual drains.....number of projects...	202	² 23	...	...	...
.....acres served...	276,463	² 32,398	...	...	...
Legally organized public drains.....number of projects...	229	² 229	NA	NA	NA
.....acres served...	5,252,771	² 4,506,440	4,508,380	4,590,495	3,452,691
PROJECTS BY YEAR STARTED					
Started 10 years or more before Census date.....number of projects...	260	² 235	NA	NA	NA
.....acres served...	4,991,384	² 4,476,359	4,483,441	3,889,411	³ 869,641
Started within 10 years of Census date.....number of projects...	338	² 32	NA	NA	NA
.....acres served...	773,954	² 130,269	109,297	741,744	³ 2,561,950
OPERATIONS, 10-YEAR PERIOD PRECEDING CENSUS DATE					
Cost of drainage works and services.....projects reporting...	471	² 127	NA	NA	NA
.....dollars...	20,488,226	5,540,041	NA	NA	NA
New drainage works constructed, enlarged, or installed.....projects reporting...	352	⁴ 28	NA	NA	NA
.....cost, dollars...	9,044,351	⁴ 391,898	NA	NA	NA
Open ditches.....projects reporting...	347	29	NA	NA	NA
.....length, miles...	1,796.0	123	NA	NA	NA
Tile or covered drains.....projects reporting...	...	...	NA	NA	NA
.....length, miles...	...	...	NA	NA	NA
Levees or dikes.....projects reporting...	9	4	NA	NA	NA
.....length, miles...	27.8	15	NA	NA	NA
Pumps.....projects reporting...	3	NA	NA	NA	NA
.....number of pumps...	4	NA	NA	NA	NA
Other (see text).....projects reporting...	...	NA	NA	NA	NA
Cost of maintenance, operation, repair, and administration.....projects reporting...	169	NA	NA	NA	NA
.....dollars...	11,443,875	5,148,143	NA	NA	NA
STATUS ON CENSUS DATE					
Capital investment.....dollars...	NA	NA	39,450,754	37,532,575	14,147,174
Physical works:					
Open ditches.....length, miles...	NA	NA	6,030.3	4,974.3	3,154.1
Tile drains.....length, miles...	NA	NA	10.8	0.1	20.4
Levees and dikes.....length, miles...	NA	NA	332.4	201.9	121.8
Pumping units.....number of units...	NA	² 5	5	5	...

NA Not available.

¹Not fully comparable. See text.²1950 figures exclude 577 projects and 94,467 acres in "irrigation enterprises."³1920 figures exclude 48,000 acres for which date of organization was not reported.⁴Cost of new works for lands not previously drained.

DRAINAGE OF AGRICULTURAL LANDS

State Table 2.—DRAINAGE

	Size of project (Based on area of agricultural land in project)	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
			Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
					Projects reporting	Acres	Projects reporting	Acres
1	All projects.....	598	5,765,338	2,002,253	484	5,529,817	151	235,521
2	500 to 999 acres.....	230	150,233	80,415	165	101,004	81	49,229
3	1,000 to 1,999 acres.....	109	144,769	72,486	83	105,997	34	36,772
4	2,000 to 4,999 acres.....	76	238,843	59,541	59	175,702	23	63,141
5	5,000 to 9,999 acres.....	60	439,295	84,055	55	383,562	10	55,733
6	10,000 to 19,999 acres.....	54	776,548	208,856	53	747,902	3	28,646
7	20,000 to 49,999 acres.....	45	1,388,425	228,142	45	1,388,425	...	...
8	50,000 to 99,999 acres.....	12	778,208	201,802	12	778,208	...	...
9	100,000 or more acres.....	12	1,849,017	1,066,956	12	1,849,017	...	...

State Table 3.—DRAINAGE PROJECTS, 1960.

	Type of organization	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
			Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
					Projects reporting	Acres	Projects reporting	Acres
1	All projects.....	598	5,765,338	2,002,253	484	5,529,817	151	235,521
2	Drains owned by one landowner.....	167	236,104	140,864	120	174,323	62	61,781
3	Cooperative or mutual drains.....	202	276,463	105,237	139	147,174	82	129,289
4	Legally organized public drains.....	229	5,252,771	1,756,152	225	5,208,320	7	44,451

State Table 4.—DRAINAGE PROJECTS, 1960.

	Year of organization	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
			Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
					Projects reporting	Acres	Projects reporting	Acres
1	All projects.....	598	5,765,338	2,002,253	484	5,529,817	151	235,521
2	1850-1859.....	338	773,954	438,490	224	542,933	148	231,021
3	Prior to 1850.....	260	4,991,384	1,563,763	260	4,986,884	3	4,500

PROJECTS, 1960, BY SIZE

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959									
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting	
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number		
471	20,488,226	352	9,044,351	347	1,796.0	...	...	9	27.8	3	4	...	1
214	679,067	205	648,914	205	525.9	...	...	3	3.8	1	2	...	2
89	566,556	83	532,268	83	306.7	...	...	...	...	...	...	...	3
49	566,238	34	396,718	33	161.8	...	...	1	6.0	...	...	...	4
33	933,089	17	449,440	15	137.2	...	...	3	12.5	...	...	...	5
32	1,968,781	8	616,231	6	109.2	...	...	2	5.5	1	1	...	6
33	4,361,112	1	477,000	1	300.0	...	...	...	...	...	...	...	7
9	1,571,221	1	189,750	1	54.3	...	...	...	...	...	...	...	8
12	9,842,162	3	5,734,030	3	200.9	...	...	...	...	1	1	...	9

BY TYPE OF ORGANIZATION

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959									
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting	
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number		
471	20,488,226	352	9,044,351	347	1,796.0	...	...	9	27.8	3	4	...	1
164	2,229,404	157	1,386,737	157	1,045.1	...	...	1	1.5	1	2	...	2
183	822,130	173	794,557	173	382.4	...	...	2	2.3	...	...	...	3
124	17,436,692	22	6,863,057	17	368.5	...	...	6	24.0	2	2	...	4

BY YEAR OF ORGANIZATION

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959									
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting	
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number		
471	20,488,226	352	9,044,351	347	1,796.0	...	...	9	27.8	3	4	...	1
338	9,195,066	326	7,908,320	325	1,262.0	...	...	5	10.3	1	2	...	2
133	11,293,160	26	1,136,031	22	534.0	...	...	4	17.5	2	2	...	3

DRAINAGE OF AGRICULTURAL LANDS

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

	Item and Census year	The State	Arkansas	Ashley	Chicot	Clark	Clay	Conway	Craighead
AREA									
1	Approximate land area.....acres 1960...	33,599,360	662,400	597,120	414,080	561,920	409,600	358,400	458,880
2	Land in farms.....acres 1960...	16,458,515	449,712	164,831	282,670	180,332	297,242	235,834	372,953
3	Drainage projects.....number 1960...	598	19	10	57	1	17	2	43
4	1950...	844	39	3	14	1	24	3	78
5	Total area in drainage projects ¹.....acres served 1960...	4,870,106	114,466	50,692	352,885	26,071	267,230	7,400	332,603
6	1950...	4,701,095	123,221	33,684	347,206	26,071	280,798	22,724	352,265
7	Area not used for agriculture or not drained.....acres served 1960...	189,140	5,300	...	28,290	...	...	...	4,328
8	Net area drained and used for agriculture.....acres served 1960...	4,680,966	109,166	50,692	324,595	26,071	267,230	7,400	328,275
9	Drainage established before 1950.....acres served 1960...	4,447,703	109,166	32,540	317,141	26,071	267,230	6,900	327,135
10	Area added, 1950-1959.....acres served 1960...	233,263	...	18,152	7,454	...	...	500	1,140
11	Area served by two or more projects.....acres served 1960...	917,881	...	6,740	124,373	...	57,040	...	68,169
PROJECTS, 1960, BY TYPE OF ORGANIZATION									
12	Drains owned by one landowner.....number of projects...	167	1	4	29	...	...	...	4
13	acres served ² ...	236,104	800	3,310	26,524	...	...	...	2,480
14	Cooperative or mutual drains.....number of projects...	202	1	4	21	...	4	1	15
15	acres served ² ...	276,463	450	21,582	22,846	...	4,180	500	10,780
16	Legally organized public drains.....number of projects...	229	17	2	7	1	13	1	24
17	acres served ² ...	5,232,771	107,916	32,540	410,290	26,071	325,140	6,900	388,664
PROJECTS, 1960, BY YEAR STARTED									
18	1950-1959.....number of projects...	338	...	9	50	...	4	1	22
19	acres served ² ...	773,954	...	49,192	138,519	...	4,180	500	48,871
20	Prior to 1950.....number of projects...	260	19	1	7	1	13	1	21
21	acres served ² ...	4,991,384	109,166	8,240	321,141	26,071	325,140	6,900	353,053
DRAINAGE OPERATIONS, 1950-1959 ³									
22	Cost of drainage works and services.....projects reporting...	471	6	8	57	1	11	1	39
23	dollars...	20,488,226	20,701	65,886	2,051,610	36,230	224,392	24,500	1,819,385
24	New drainage works constructed, enlarged, or installed.....projects reporting...	352	1	8	51	...	5	1	21
25	dollars...	9,044,351	300	65,886	1,956,980	...	23,270	24,500	84,204
26	Open ditches.....projects reporting...	347	1	8	51	...	5	1	21
27	length, miles...	1,796.0	0.1	36.7	364.9	...	9.9	3.3	49.8
28	Tile or covered drains.....projects reporting...	...	...	...	...	...	...	...	...
29	length, miles...	...	...	...	...	...	...	...	...
30	Levees or dikes.....projects reporting...	9	...	...	...	...	...	...	4
31	length, miles...	27.8	...	...	...	...	...	...	14.5
32	Pumps.....projects reporting...	3	...	...	...	...	...	...	...
33	number of pumps...	4	...	...	...	...	...	...	...
34	Other (see text).....projects reporting...	...	...	...	...	...	...	...	...
35	Cost of maintenance, operation, repair, and administration.....projects reporting...	169	6	...	27	1	7	...	20
36	dollars...	11,443,875	20,401	...	94,630	36,230	201,122	...	1,735,181

¹Land served by two or more projects counted only once.²Acres served by two projects are included for each project. See text.³Includes projects taken over by another project prior to 1960. See text.

County Table 1. --DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data.]

Item and Census year	Crawford	Crittenden	Cross	Deeks	Drew	Faulkner	Greene	Hempstead
AREA								
1 Approximate land area.....acres 1960...	382,080	398,720	400,640	496,640	535,040	413,440	370,560	470,400
2 Land in farms.....acres 1959...	160,603	350,192	319,960	270,695	176,153	286,992	267,842	237,507
3 Drainage projects.....number 1960...	2	25	41	28	7	4	42	2
4 1950...	1	11	189	16	1	3	44	2
5 Total area in drainage projects ¹.....acres served 1960...	1,860	268,337	173,325	335,875	17,200	13,899	207,544	9,104
6 1950...	920	260,337	156,782	308,322	3,440	9,169	207,037	9,104
7 Area not used for agriculture or not drained.....acres served 1960...	...	...	...	3,480	...	...	1,700	...
8 Net area drained and used for agriculture.....acres served 1960...	1,860	268,337	173,325	332,395	17,200	13,899	205,844	9,104
9 Drainage established before 1950.....acres served 1960...	...	259,897	130,575	328,195	4,040	13,899	199,544	9,104
10 Area added, 1950-1959.....acres served 1960...	1,860	8,440	42,750	4,200	13,160	...	6,300	...
11 Area served by two or more projects.....acres served 1960...	...	33,064	11,296	123,675	...	...	49,291	...
PROJECTS, 1960, BY TYPE OF ORGANIZATION								
12 Drains owned by one landowner.....number of projects...	...	11	13	17	2	1	5	...
13 acres served ²...	...	7,560	17,863	47,336	3,260	529	4,840	...
14 Cooperative or mutual drains.....number of projects...	2	4	23	4	4	1	16	...
15 acres served ² ...	1,860	6,200	41,688	3,645	10,500	800	18,898	...
16 Legally organized public drains.....number of projects...	...	10	5	7	1	2	21	2
17 acres served ²...	...	289,241	125,070	435,476	3,440	12,970	237,102	9,104
PROJECTS, 1960, BY YEAR STARTED								
18 1950-1959.....number of projects...	2	16	30	16	5	1	21	...
19 acres served ² ...	1,860	43,104	54,534	121,068	11,200	529	34,978	...
20 Prior to 1950.....number of projects...	...	9	11	12	2	3	21	2
21 acres served ²...	...	259,897	130,087	365,409	6,000	13,370	225,862	9,104
DRAINAGE OPERATIONS, 1950-1959³								
22 Cost of drainage works and services.....projects reporting...	2	24	35	26	6	3	30	...
23 dollars...	15,715	1,344,322	210,563	4,539,015	59,468	25,982	450,697	...
24 New drainage works constructed, enlarged, or installed.....projects reporting...	2	13	32	22	6	1	23	...
25 dollars...	15,715	43,574	154,761	4,293,622	59,468	14,500	231,499	...
26 Open ditches.....projects reporting...	2	13	32	22	6	...	21	...
27 length, miles...	5.1	23.6	93.5	310.2	31.2	...	36.4	...
28 Tills or covered drains.....projects reporting...	...	...	...	...	...	...	...	...
29 length, miles...	...	...	...	...	...	...	...	...
30 Levees or dikes.....projects reporting...	...	...	...	...	...	1	2	...
31 length, miles...	...	...	...	...	...	0.6	11.0	...
32 Pumps.....projects reporting...	...	...	...	...	...	...	...	...
33 number of pumps...	...	...	...	...	...	...	...	...
34 Other (see text).....projects reporting...	...	...	...	...	...	...	...	...
35 Cost of maintenance, operation, repair, and administration.....projects reporting...	...	11	6	10	...	3	8	...
36 dollars...	...	1,300,748	55,802	245,393	...	11,482	219,198	...

¹Land served by two or more projects counted only once.²Acres served by two projects are included for each project. See text.³Includes projects taken over by another project prior to 1960. See text.

County Table 1. —DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

	Item and Census year	Independence	Jackson	Jefferson	Lafayette	Lawrence	Lee	Lincoln	Little River
	AREA								
1	Approximate land area..... acres 1960...	483,200	407,680	569,600	336,640	378,880	396,800	361,600	348,160
2	Land in farms..... acres 1959...	305,090	348,913	311,941	130,861	279,132	272,618	223,175	182,247
3	Drainage projects..... number 1960...	12	35	43	4	28	25	18	4
4	..... 1950...	10	56	34	4	33	21	9	1
5	Total area in drainage projects ¹ acres served 1960...	15,494	195,867	202,841	51,460	180,246	112,637	110,684	24,560
6	..... 1950...	28,866	181,679	218,942	41,034	199,423	107,702	101,424	10,892
7	Area not used for agriculture or not drained..... acres served 1960...	3,950	...	18,800	...	...	8,320	...	2,880
8	Not area drained and used for agriculture..... acres served 1960...	11,544	195,867	184,041	51,460	180,246	104,317	110,684	21,680
9	Drainage established before 1950..... acres served 1960...	7,676	175,736	167,846	41,414	178,801	93,972	104,924	8,012
10	Area added, 1950-1959..... acres served 1960...	3,868	20,131	16,195	10,046	1,275	10,345	5,760	13,668
11	Area served by two or more projects..... acres served 1960...	...	11,920	37,230	...	13,471	5,285	17,645	5,292
	PROJECTS, 1960, BY TYPE OF ORGANIZATION								
12	Drains owned by one landowner..... number of projects...	...	10	11	1	4	10	2	2
13	..... acres served ²...	...	10,906	9,875	6,000	2,706	9,215	12,400	1,500
14	Cooperative or mutual drains..... number of projects...	9	6	14	...	13	6	7	...
15	..... acres served ² ...	7,098	5,456	10,920	...	12,780	4,945	8,335	...
16	Legally organized public drains..... number of projects...	3	19	18	3	11	9	9	2
17	..... acres served ² ...	4,446	192,541	212,856	45,460	178,801	95,442	107,594	26,012
	PROJECTS, 1960, BY YEAR STARTED								
18	1950-1959..... number of projects...	4	17	26	1	17	14	8	3
19	..... acres served ² ...	3,868	28,319	26,555	10,046	15,486	13,530	8,900	19,500
20	Prior to 1950..... number of projects...	8	18	17	3	11	11	10	1
21	..... acres served ² ...	7,676	180,584	207,096	41,414	178,801	96,072	119,429	8,012
	DRAINAGE OPERATIONS, 1950-1959 ³								
22	Cost of drainage works and services..... projects reporting...	5	24	36	2	18	22	12	3
23	..... dollars...	32,458	315,732	481,206	173,814	88,951	148,548	102,881	329,200
24	New drainage works constructed, enlarged, or installed..... projects reporting...	4	18	26	1	17	16	9	3
25	..... dollars...	31,458	200,976	131,514	104,230	51,231	49,433	63,313	329,200
26	Open ditches..... projects reporting...	4	18	26	1	17	16	9	3
27	..... length, miles...	16.0	61.3	58.0	8.0	33.8	35.7	21.5	29.8
28	Tile or covered drains..... projects reporting...	...	...	...	...	...	...	...	...
29	..... length, miles...	...	...	...	...	...	...	...	...
30	Levees or dikes..... projects reporting...	...	...	...	...	...	...	...	1
31	..... length, miles...	...	...	...	...	...	...	...	0.5
32	Pumps..... projects reporting...	...	...	1	...	...	...	...	...
33	..... number of pumps...	...	...	2	...	...	...	...	...
34	Other (see text)..... projects reporting...	...	...	...	...	...	...	...	...
35	Cost of maintenance, operation, repair, and administration..... projects reporting...	1	8	10	1	1	8	4	...
36	..... dollars...	1,000	114,756	349,692	69,584	37,720	99,115	39,568	...

¹Land served by two or more projects counted only once.²Acres served by two projects are included for each project. See text.³Includes projects taken over by another project prior to 1960. See text.

County Table 1. --DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data.]

Item and Census year		Logan	Lonoke	Miller	Mississippi	Monroe	Perry	Phillips	Poinsett
AREA									
1	Approximate land area.....acres 1960...	463,360	512,000	401,280	589,440	394,880	353,920	450,560	487,680
2	Land in farms.....acres 1959...	265,214	377,698	188,850	533,421	201,508	98,122	305,315	404,318
3	Drainage projects.....number 1960...	4	20	8	21	9	3	30	31
4	.....1950...	1	99	8	11	15	3	9	10
5	Total area in drainage projects ¹.....acres served 1960...	2,720	219,269	86,069	499,678	29,046	15,560	261,678	396,700
6	.....1950...	1,301	238,885	86,069	516,687	30,565	14,728	113,404	404,190
7	Area not used for agriculture or not drained.....acres served 1960...	...	9,492	15,000	17,000	700	...	6,420	51,380
8	Net area drained and used for agriculture.....acres served 1960...	2,720	209,777	71,069	482,678	28,346	15,560	255,258	345,320
9	Drainage established before 1950.....acres served 1960...	...	209,727	71,069	480,691	24,040	14,720	253,238	345,320
10	Area added, 1950-1959.....acres served 1960...	2,720	50	...	1,987	4,306	840	2,020	...
11	Area served by two or more projects.....acres served 1960...	...	11,734	1,920	204,424	320	...	115,497	7,430
PROJECTS, 1960, BY TYPE OF ORGANIZATION									
12	Drains owned by one landowner.....number of projects...	3	3	...	4	2	...	15	12
13	.....acres served ² ...	2,200	3,342	...	33,700	1,306	...	13,400	6,735
14	Cooperative or mutual drains.....number of projects...	1	2	...	7	4	1	9	11
15	.....acres served ² ...	520	4,000	...	5,150	4,050	840	18,013	8,337
16	Legally organized public drains.....number of projects ³...	...	15	8	10	3	2	6	8
17	.....acres served ²...	...	214,169	72,989	729,572	23,310	14,720	350,863	337,788
PROJECTS, 1960, BY YEAR STARTED									
18	1950-1959.....number of projects...	4	1	...	11	5	1	21	23
19	.....acres served ² ...	2,720	850	...	55,450	5,036	840	19,496	15,072
20	Prior to 1950.....number of projects...	...	19	8	10	4	2	9	8
21	.....acres served ²...	...	220,661	72,989	712,972	23,630	14,720	362,780	337,788
DRAINAGE OPERATIONS, 1950-1959 ³									
22	Cost of drainage works and services.....projects reporting...	4	9	6	21	7	1	30	27
23	.....dollars...	15,386	81,717	60,360	4,772,808	18,391	3,349	851,488	1,803,808
24	New drainage works constructed, enlarged, or installed.....projects reporting...	4	2	...	9	5	1	23	23
25	.....dollars...	15,386	7,221	...	507,609	14,962	3,349	308,068	88,509
26	Open ditches.....projects reporting...	4	2	...	9	5	1	23	23
27	.....length, miles...	4.1	7.8	...	320.8	9.9	3.5	122.1	48.9
28	Tile or covered drains.....projects reporting...	...	...	...	...	...	...	...	...
29	.....length, miles...	...	...	...	...	...	...	...	...
30	Levees or diked.....projects reporting...	...	...	...	...	...	...	...	...
31	.....length, miles...	...	...	...	...	...	...	...	...
32	Pumps.....projects reporting...	...	...	...	...	...	...	...	1
33	.....number of pumps...	...	...	...	...	...	...	...	1
34	Other (see text).....projects reporting...	...	...	...	...	...	...	...	...
35	Cost of maintenance, operation, repair, and administration.....projects reporting...	...	9	6	13	2	...	10	7
36	.....dollars...	...	74,496	60,360	4,265,199	3,429	...	543,420	1,715,299

¹Land served by two or more projects counted only once.²Acres served by two projects are included for each project. See text.³Includes projects taken over by another project prior to 1960. See text.

DRAINAGE OF AGRICULTURAL LANDS

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

	Item and Census year	Pope	Prairie	Pulaski	Randolph	St. Francis	White	Woodruff	Yell
	AREA								
1	Approximate land area.....acres 1960...	521,600	431,360	490,880	414,080	407,040	666,880	378,880	597,120
2	Land in farms.....acres 1959...	207,467	256,528	184,824	237,088	344,465	419,362	267,116	208,747
3	Drainage projects.....number 1960...	4	8	11	5	12	1	9	2
4	.....1950...	5	62	7	5	23	1	25	2
5	Total area in drainage projects ¹.....acres served 1960...	7,480	28,523	62,831	53,251	55,583	17,569	46,509	15,360
6	.....1950...	8,838	37,803	31,951	53,251	47,285	17,569	48,867	16,640
7	Area not used for agriculture or not drained.....acres served 1960...	...	7,740	2,160	...	700	...	1,500	...
8	Net area drained and used for agriculture.....acres served 1960...	7,480	20,783	60,671	53,251	54,883	17,569	45,009	15,360
9	Drainage established before 1960.....acres served 1960...	6,280	20,783	43,031	53,251	43,219	17,569	39,417	15,360
10	Area added, 1950-1959.....acres served 1960...	1,200	...	17,640	...	11,664	...	5,592	...
11	Area served by two or more projects.....acres served 1960...	...	850	1,600	...	7,623	...	1,992	...
	PROJECTS, 1960, BY TYPE OF ORGANIZATION								
12	Drains owned by one landowner.....number of projects...	...	2	1	...	2	...	...	...
13	.....acres served ²...	...	1,800	4,400	...	2,097	...	...	...
14	Cooperative or mutual drains.....number of projects...	1	4	5	...	6	...	5	...
15	.....acres served ² ...	1,200	5,330	17,419	...	12,111	...	6,030	...
16	Legally organized public drains.....number of projects...	3	2	5	5	4	1	4	2
17	.....acres served ² ...	6,280	14,503	40,452	53,251	48,298	17,569	40,971	15,360
	PROJECTS, 1960, BY YEAR STARTED								
18	1950-1959.....number of projects...	1	...	4	...	7	...	5	...
19	.....acres served ² ...	1,200	...	19,303	...	11,664	...	7,584	...
20	Prior to 1950.....number of projects...	3	8	7	5	5	1	4	2
21	.....acres served ² ...	6,280	21,633	42,968	53,251	50,842	17,569	39,417	15,360
	DRAINAGE OPERATIONS, 1950-1959 ³								
22	Cost of drainage works and services.....projects reporting...	1	4	6	2	8	...	5	1
23	.....dollars...	2,882	15,399	69,508	10,641	147,004	...	35,405	38,824
24	New drainage works constructed, enlarged, or installed.....projects reporting...	1	...	5	...	7	...	5	1
25	.....dollars...	2,882	...	52,498	...	40,004	...	35,405	38,824
26	Open ditches.....projects reporting...	1	...	4	...	7	...	5	...
27	.....length, miles...	1.3	...	9.2	...	27.4	...	12.2	...
28	Tile or covered drains.....projects reporting...	...	...	...	...	...	...	...	...
29	.....length, miles...	...	...	...	...	...	...	...	...
30	Levees or dikes.....projects reporting...	...	...	...	...	...	...	...	1
31	.....length, miles...	...	...	...	...	...	...	...	1.2
32	Pumps.....projects reporting...	...	...	1	...	...	...	...	...
33	.....number of pumps...	...	...	1	...	...	...	...	...
34	Other (see text).....projects reporting...	...	...	...	...	...	...	...	...
35	Cost of maintenance, operation, repair, and administration.....projects reporting...	...	4	2	2	1	...	...	...
36	.....dollars...	...	15,399	17,010	10,641	107,000	...	...	...

¹Land served by two or more projects counted only once.²Acres served by two projects are included for each project. See text.³Includes projects taken over by another project prior to 1960. See text.

State Table 1.—DRAINAGE PROJECTS—NUMBER, AREA, COST, AND WORKS, 1920 TO 1960

[See text for comparability of data.]

Item	1960 Census	1950 Census	1940 Census	1930 Census	1920 Census
AREA					
Approximate land area.....acres...	100,206,720	100,313,600	100,353,920	99,617,280	99,617,280
Land in farms.....acres...	36,887,948	36,613,291	30,524,324	30,442,581	29,365,667
Drainage projects.....number...	356	2,047	158	NA	NA
Total area in drainage projects.....acres served...	1,934,825	2,554,576	2,667,194	2,233,714	1,108,319
Area not used for agriculture or not drained.....acres served...	23,574	NA	NA	NA	NA
Net area drained and used for agriculture.....acres served...	1,911,251	NA	¹ 2,551,036	¹ 2,024,446	NA
Drainage established 10 years or more before Census date.....acres served...	1,666,899	NA	NA	NA	NA
Drainage established within 10 years of Census date.....acres served...	244,352	NA	NA	NA	NA
Area served by two or more projects.....acres served...	106,696	...	88,563	60,354	...
PROJECTS BY TYPE OF ORGANIZATION					
Drains owned by one landowner.....number of projects...	197	² 48	NA	NA	NA
.....acres served...	311,903	² 177,321	² 89,985	² 50,384	² 147,678
Cooperative or mutual drains.....number of projects...	45	² 13	...	...	...
.....acres served...	124,511	² 73,266	...	...	...
Legally organized public drains.....number of projects...	154	² 102	NA	NA	NA
.....acres served...	1,583,133	² 1,202,950	² 1,168,701	² 1,167,139	² 795,441
PROJECTS BY YEAR STARTED					
Started 10 years or more before Census date.....number of projects...	269	² 142	NA	NA	NA
.....acres served...	1,752,466	² 1,400,083	2,624,471	1,753,760	² 471,396
Started within 10 years of Census date.....number of projects...	87	² 21	NA	NA	NA
.....acres served...	267,081	² 53,454	42,723	479,954	² 566,114
OPERATIONS, 10-YEAR PERIOD PRECEDING CENSUS DATE					
Cost of drainage works and services.....projects reporting...	344	² 159	NA	NA	NA
.....dollars...	29,065,297	15,926,510	NA	NA	NA
New drainage works constructed, enlarged, or installed.....projects reporting...	206	⁴ 16	16	NA	NA
.....cost, dollars...	4,525,825	⁴ 139,346	NA	NA	NA
Open ditches.....projects reporting...	167	15	NA	NA	NA
.....length, miles...	812.9	34	NA	NA	NA
Tile or covered drains.....projects reporting...	21	2	NA	NA	NA
.....length, miles...	46.0	11	NA	NA	NA
Levees or dikes.....projects reporting...	50	...	NA	NA	NA
.....length, miles...	227.4	...	NA	NA	NA
Pumps.....projects reporting...	74	NA	NA	NA	NA
.....number of pumps...	162	NA	NA	NA	NA
Other (see text).....projects reporting...	42	NA	NA	NA	NA
Cost of maintenance, operation, repair, and administration.....projects reporting...	289	NA	NA	NA	NA
.....dollars...	24,539,432	15,791,164	NA	NA	NA
STATUS ON CENSUS DATE					
Capital investment.....dollars...	NA	NA	70,144,044	66,451,698	47,687,153
Physical works:					
Open ditches.....length, miles...	NA	NA	6,091.1	4,605.9	3,009.8
Tile drains.....length, miles...	NA	NA	326.2	486.2	85.6
Levees and dikes.....length, miles...	NA	NA	1,537.6	1,389.5	1,131.1
Pumping units.....number of units...	NA	² 382	763	426	NA

NA Not available.

¹Not fully comparable. See text.²1950 figures exclude 1,884 projects and 1,101,039 acres in "irrigation enterprises"; 1940 figures exclude 1,408,508 acres in "irrigation enterprises"; 1930 figures exclude 1,016,191 acres in "irrigation enterprises"; 1920 figures exclude 165,200 acres in "irrigation enterprises."³1920 figures exclude 70,809 acres for which date of organization was not reported.⁴Cost of new works for lands not previously drained.

State Table 2.—DRAINAGE

	Size of project (Based on area of agricultural land in project)	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
			Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
					Projects reporting	Acres	Projects reporting	Acres
1	All projects.....	356	2,019,547	214,992	282	1,767,032	84	252,515
2	500 to 999 acres.....	104	71,294	23,895	67	45,447	39	25,847
3	1,000 to 1,999 acres.....	76	101,939	26,164	57	75,458	20	26,481
4	2,000 to 4,999 acres.....	75	230,410	47,543	67	204,634	10	25,776
5	5,000 to 9,999 acres.....	56	381,682	55,813	49	320,334	10	61,348
6	10,000 to 19,999 acres.....	27	385,170	24,073	24	329,130	4	56,040
7	20,000 to 49,999 acres.....	9	234,240	14,297	9	234,240	...	...
8	50,000 to 99,999 acres.....	8	477,966	20,838	8	420,943	1	57,023
9	100,000 or more acres.....	1	136,846	2,369	1	136,846	...	...

State Table 3.—DRAINAGE PROJECTS, 1960,

	Type of organization	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
			Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
					Projects reporting	Acres	Projects reporting	Acres
1	All projects.....	356	2,019,547	214,992	282	1,767,032	84	252,515
2	Drains owned by one landowner.....	197	311,903	85,783	129	272,280	33	39,623
3	Cooperative or mutual drains.....	45	124,511	15,328	15	38,652	32	85,859
4	Legally organized public drains.....	154	1,583,133	113,881	138	1,456,100	19	127,033

State Table 4.—DRAINAGE PROJECTS, 1960,

	Year of organization	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
			Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
					Projects reporting	Acres	Projects reporting	Acres
1	All projects.....	356	2,019,547	214,992	282	1,767,032	84	252,515
2	1950-1959.....	87	267,081	31,365	13	15,501	81	251,580
3	Prior to 1950.....	269	1,752,466	183,627	269	1,751,531	3	935

¹Includes projects taken over by another project prior to 1960. See text.

PROJECTS, 1960, BY SIZE

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959								
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	
344	29,065,297	206	4,525,825	167	812.9	21	46.0	50	227.4	74	162	42
102	1,367,077	78	662,786	69	204.6	6	13.6	20	55.4	18	29	11
72	1,863,853	43	604,837	35	118.0	8	9.2	14	43.2	12	13	13
72	5,896,932	38	1,232,258	26	168.5	4	8.5	9	56.9	19	40	10
55	6,703,709	27	689,709	21	195.2	2	11.5	4	29.4	12	29	4
26	4,437,840	14	544,595	12	93.3	...	...	2	19.0	8	23	3
8	2,490,090	2	112,587	1	10.0	1	3.2	...	...	2	8	...
8	6,105,756	4	679,053	3	23.3	...	...	1	23.5	3	20	1
1	200,000	...	...	...	...	...	...	...	...	...	...	...

BY TYPE OF ORGANIZATION

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959								
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	
344	29,065,297	206	4,525,825	167	812.9	21	46.0	50	227.4	74	162	42
155	4,444,461	103	1,046,141	96	488.1	6	4.8	28	100.8	34	61	26
41	1,341,852	37	665,387	29	124.2	10	25.4	3	5.9	2	3	7
148	23,278,944	66	2,814,297	42	200.6	5	15.8	19	120.7	38	98	9

BY YEAR OF ORGANIZATION

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959								
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	
344	29,065,297	206	4,525,825	167	812.9	21	46.0	50	227.4	74	162	42
188	3,664,379	87	2,304,476	79	350.2	12	25.9	22	90.1	9	29	22
256	25,400,878	119	2,221,349	88	462.7	9	20.1	28	137.3	65	133	20

DRAINAGE OF AGRICULTURAL LANDS

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

Item and Census year		The State	Alameda	Butte	Colusa	Contra Costa	Fresno	Glenn	Kings	Lake
AREA										
1	Approximate land area.....acres 1960...	100,206,720	469,120	1,064,320	737,920	469,760	3,816,960	842,880	892,800	803,840
2	Land in farms.....acres 1959...	36,887,948	311,139	670,119	491,128	287,927	2,286,381	648,569	678,005	252,310
3	Drainage projects..... number 1960...	356	9	12	30	44	5	12	8	4
4	1950.....	2,047	11	120	65	54	26	60	15	30
5	Total area in drainage projects ¹ acres served 1960...	1,934,825	26,400	129,421	252,892	56,809	79,888	106,372	59,231	2,542
6	1950.....	2,544,576	1,776	156,665	258,742	56,930	86,627	147,132	27,981	2,518
7	Area not used for agriculture or not drained..... acres served 1960...	23,574	...	...	...	...	...	...	...	...
8	Net area drained and used for agriculture..... acres served 1960...	1,911,251	26,400	129,421	252,892	56,809	79,888	106,372	59,231	2,542
9	Drainage established before 1950..... acres served 1960...	1,666,899	12,400	129,421	252,042	56,809	79,888	104,370	59,231	1,992
10	Area added, 1950-1959..... acres served 1960...	244,352	14,000	...	850	...	...	2,002	...	550
11	Area served by two or more projects..... acres served 1960...	106,696	1,000	7,754	21,548	28,209	...	2,234	...	...
PROJECTS, 1960, BY TYPE OF ORGANIZATION										
12	Drains owned by one landowner..... number of projects...	157	...	3	18	30	...	3	...	...
13	acres served ² ...	311,903	...	2,126	45,867	30,845	...	4,555	...	...
14	Cooperative or mutual drains..... number of projects...	45	2	...	1	...	...	...	...	1
15	acres served ² ...	124,511	2,500	...	2,300	...	...	...	...	550
16	Legally organized public drains..... number of projects...	154	7	9	11	14	5	9	8	3
17	acres served ² ...	1,583,133	24,900	136,649	226,273	54,173	79,888	104,051	59,231	1,992
PROJECTS, 1960, BY YEAR STARTED										
18	1950-1959..... number of projects...	87	7	...	2	1	...	2	...	1
19	acres served ² ...	267,081	14,000	...	1,493	1,657	...	4,280	...	550
20	Prior to 1950..... number of projects...	269	2	12	28	43	5	10	8	3
21	acres served ² ...	1,752,466	13,400	138,775	272,947	83,361	79,888	104,326	59,231	1,992
DRAINAGE OPERATIONS, 1950-1959 ³										
22	Cost of drainage works and services.....projects reporting...	344	8	12	29	44	5	10	6	4
23	dollars...	29,065,257	294,146	753,274	1,853,987	1,934,651	603,524	192,600	705,947	162,034
24	New drainage works constructed, enlarged, or installed.....projects reporting...	206	7	1	15	18	1	5	...	4
25	dollars...	4,525,825	216,146	150	217,288	161,878	27,569	51,500	...	47,010
26	Open ditches.....projects reporting...	167	7	...	15	15	1	5	...	4
27	length, miles...	812.9	24.5	...	62.9	92.0	4.0	10.0	...	3.5
28	Tile or covered drains.....projects reporting...	21	...	...	...	...	...	...	...	...
29	length, miles...	46.0	...	...	...	...	...	...	...	...
30	Levees or dikes.....projects reporting...	50	5	...	4	1	...	1	...	2
31	length, miles...	227.4	22.1	...	14.0	6.0	...	1.7	...	0.6
32	Pumps.....projects reporting...	74	...	...	4	6	1	1	...	2
33	number of pumps...	162	...	...	6	11	6	3	...	4
34	Other (see text).....projects reporting...	42	...	1	7	1	...	3	...	...
35	Cost of maintenance, operation, repair, and administration.....projects reporting...	289	1	12	28	44	5	9	6	3
36	dollars...	24,539,432	78,000	753,124	1,636,699	1,772,773	575,955	141,100	705,947	115,024

¹Land served by two or more projects counted only once.²Acres served by two projects are included for each project. See text.³Includes projects taken over by another project prior to 1960. See text.

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959--Continued

[See text for comparability of 1960 and 1950 data.]

Item and Census year	Marin	Mendocino	Merced	Modoc	Monterey	Napa	Orange	Placer	Plumas
AREA									
1 Approximate land area.....acres 1960...	332,800	2,244,480	1,268,480	2,618,880	2,127,360	485,120	500,480	911,360	1,644,800
2 Land in farms.....acres 1959...	227,450	1,057,226	969,504	1,035,911	1,612,991	296,112	345,689	258,825	95,465
3 Drainage projects.....number 1960...	9	2	8	1	5	3	8	5	5
4 .....1950...	5	12	76	10	35	10	33	14	5
5 Total area in drainage projects ¹.....acres served 1960...	8,677	21,600	45,713	3,000	26,955	2,206	87,687	3,776	16,760
6 .....1950...	4,445	21,804	148,602	33,429	11,619	1,574	91,373	2,140	426
7 Area not used for agriculture or not drained.....acres served 1960...	...	...	...	...	...	...	6,824	...	...
8 Net area drained and used for agriculture.....acres served 1960...	8,677	21,600	45,713	3,000	26,955	2,206	80,863	3,776	16,760
9 Drainage established before 1950.....acres served 1960...	7,157	21,600	43,089	3,000	7,000	...	80,863	2,526	...
10 Area added, 1950-1959.....acres served 1960...	1,520	...	2,624	...	19,955	2,206	...	1,250	16,760
11 Area served by two or more projects.....acres served 1960...	...	...	...	...	...	...	1,000	...	...
PROJECTS, 1960, BY TYPE OF ORGANIZATION									
12 Drains owned by one landowner.....number of projects...	9	...	...	1	2	...	2	4	3
13 .....acres served ² ...	8,677	...	...	3,000	3,455	...	52,037	1,776	2,600
14 Cooperative or mutual drains.....number of projects...	...	...	4	...	2	3	...	...	2
15 .....acres served ²...	...	...	5,162	...	18,800	2,206	...	...	14,160
16 Legally organized public drains.....number of projects...	...	2	4	...	1	...	6	1	...
17 .....acres served ²...	...	21,600	40,551	...	4,700	...	29,826	2,000	...
PROJECTS, 1960, BY YEAR STARTED									
18 1950-1959.....number of projects...	2	...	2	...	3	3	...	2	5
19 .....acres served ³ ...	1,325	...	2,624	...	19,955	2,206	...	1,250	16,760
20 Prior to 1950.....number of projects...	7	2	6	1	2	...	8	3	...
21 .....acres served ³ ...	7,352	21,600	43,089	3,000	7,000	...	81,863	2,526	...
DRAINAGE OPERATIONS, 1950-1959 ⁴									
22 Cost of drainage works and services.....projects reporting...	9	1	5	(⁴)	5	3	8	5	5
23 .....dollars...	169,009	32,000	492,238	(⁴)	245,184	120,000	439,632	36,602	75,255
24 New drainage works constructed, enlarged, or installed.....projects reporting...	7	...	5	...	3	3	3	3	4
25 .....dollars...	115,332	...	110,284	...	22,120	110,000	134,967	3,985	62,255
26 Open ditches.....projects reporting...	7	...	4	...	3	3	1	3	4
27 .....length, miles...	61.1	...	6.7	...	8.2	9.5	3.1	2.7	18.1
28 Tile or covered drain.....projects reporting...	...	...	1	...	...	...	2	...	...
29 .....length, miles...	...	...	3.2	...	...	...	13.5	...	...
30 Levees or dikes.....projects reporting...	7	...	...	...	1	1	...	...	1
31 .....length, miles...	29.0	...	...	...	3.5	0.5	...	...	1.4
32 Pumps.....projects reporting...	5	...	2	...	1	...	1	...	...
33 .....number of pumps...	13	...	5	...	2	...	3	...	...
34 Other (see text).....projects reporting...	2	...	1	...	2	...	...	1	2
35 Cost of maintenance, operation, repair, and administration.....projects reporting...	6	1	4	(⁴)	2	1	7	3	5
36 .....dollars...	53,677	32,000	381,954	(⁴)	223,064	10,000	304,665	32,617	13,000

¹Land served by two or more projects counted only once.²Acres served by two projects are included for each project. See text.³Includes projects taken over by another project prior to 1960. See text.⁴Included in State total only.

DRAINAGE OF AGRICULTURAL LANDS

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959--Continued

[See text for comparability of 1960 and 1950 data]

Item and Census year	Riverside	Sacramento	San Benito	San Joaquin	San Luis Obispo	Santa Barbara	Santa Clara	Santa Cruz	Sierra
AREA									
1 Approximate land area.....acres 1960...	4,593,280	629,120	893,440	1,901,760	2,122,240	1,752,320	833,280	280,960	613,120
2 Land in farms.....acres 1950...	801,430	546,988	750,447	1,924,893	1,687,216	937,523	529,489	108,984	92,189
3 Drainage projects.....number 1960...	3	25	6	59	2	1	10	2	1
4 1950...	14	254	5	251	18	22	19	34	2
5 Total area in drainage projects ¹.....acres served 1960...	2,900	119,173	7,839	183,914	2,205	5,230	48,111	60,000	6,000
6 1950...	11,914	160,652	110	329,572	7,608	5,881	5,514	3,140	600
7 Area not used for agriculture or not drained.....acres served 1960...	...	...	...	...	...	...	7,230	1,100	...
8 Net area drained and used for agriculture.....acres served 1960...	2,900	119,173	7,839	183,914	2,205	5,230	40,861	58,900	6,000
9 Drainage established before 1950.....acres served 1960...	1,800	117,863	650	176,835	2,205	5,230	13,626	1,877	...
10 Area added, 1950-1959.....acres served 1960...	1,100	1,310	7,189	7,079	...	...	27,235	57,023	6,000
11 Area served by two or more projects.....acres served 1960...	...	3,506	1,150	6,826	...	...	...	1,877	...
PROJECTS, 1960, BY TYPE OF ORGANIZATION									
12 Drains owned by one landowner.....number of projects...	1	7	1	33	1	1	2	...	1
13 acres served ² ...	1,000	6,164	639	70,356	420	5,230	8,685	...	6,000
14 Cooperative or mutual drains.....number of projects...	1	2	5	2	...	...	1	...	...
15 acres served ³ ...	1,100	1,310	8,350	3,185	...	...	12,500	...	...
16 Legally organized public drains.....number of projects...	1	16	...	24	1	...	7	2	...
17 acres served ³ ...	800	115,205	...	117,199	1,785	...	19,676	60,777	...
PROJECTS, 1960, BY YEAR STARTED									
18 1950-1959.....number of projects...	1	2	5	3	...	...	8	1	1
19 acres served...	1,100	1,310	8,339	6,779	...	...	27,235	58,900	6,000
20 Prior to 1950.....number of projects...	2	23	1	56	2	1	2	1	...
21 acres served ³ ...	1,800	121,369	650	183,961	2,205	5,230	13,626	1,877	...
DRAINAGE OPERATIONS, 1950-1959 ⁴									
22 Cost of drainage works and services.....projects reporting...	3	23	5	58	2	1	9	2	(⁵)
23 dollars...	43,248	2,830,121	34,562	5,827,009	191,759	40,000	936,261	1,398,679	(⁵)
24 New drainage works constructed, enlarged, or installed.....projects reporting...	(⁵)	12	5	28	...	...	8	1	(⁵)
25 dollars...	(⁵)	153,011	34,262	516,458	...	...	746,211	327,768	(⁵)
26 Open ditches.....projects reporting...	...	4	5	20	...	...	8	1	(⁵)
27 length, miles...	...	3.5	9.6	152.8	...	...	18.4	14.2	(⁵)
28 Tile or covered drains.....projects reporting...	(⁵)	1	...	2	...	...	2	...	...
29 length, miles...	(⁵)	1.3	...	0.2	...	...	1.1	...	...
30 Levees or dikes.....projects reporting...	...	2	...	9	...	...	4	1	...
31 length, miles...	...	1.8	...	77.0	...	...	12.5	23.5	...
32 Pumps.....projects reporting...	...	7	...	21	...	...	...	1	...
33 number of pumps...	...	8	...	45	...	...	...	12	...
34 Other (see text).....projects reporting...	...	2	...	2	...	...	2	1	(⁵)
35 Cost of maintenance, operation, repair, and administration.....projects reporting...	3	21	1	58	2	1	3	2	(⁵)
36 dollars...	8,409	2,677,110	300	5,310,551	191,759	40,000	190,050	1,070,911	(⁵)

¹The excess of farm acreage over approximate land area is due to the fact that the entire acreage of a farm is tabulated as in the county in which the headquarters is located, even though a part of the farm may be situated in an adjoining county.

²Land served by two or more projects counted only once.

³Acres served by two projects are included for each project. See text.

⁴Includes projects taken over by another project prior to 1960. See text.

⁵Included in State total only.

County Table 1.—DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959—Continued

[See text for comparability of 1960 and 1950 data]

Item and Census year		Solano	Sanoma	Stanislaus	Sutter	Venture	Yolo	Yuba	All other counties ¹
AREA									
1	Approximate land area.....acres 1960...	529,280	1,010,560	960,000	388,480	1,184,640	661,760	407,680	58,418,560
2	Land in farms.....acres 1959...	477,975	763,847	847,395	406,363	449,265	566,199	261,589	14,512,659
3	Drainage projects.....number 1960...	30	13	10	22	4	30	3	...
4	.....1950...	53	20	35	278	122	88	26	275
5	Total area in drainage projects ².....acres served 1960...	91,657	16,411	13,981	196,504	20,404	194,286	36,281	...
6	.....1950...	74,872	3,981	178,736	265,973	41,412	198,434	38,523	173,871
7	Area not used for agriculture or not drained.....acres served 1960...	1,920	...	...	...	500	3,100	2,880	...
8	Net area drained and used for agriculture.....acres served 1960...	89,737	16,411	13,981	196,504	19,904	191,186	33,401	...
9	Drainage established before 1950.....acres served 1960...	58,613	14,896	3,105	193,434	19,904	162,072	33,401	...
10	Area added, 1950-1959.....acres served 1960...	31,124	1,515	10,876	3,070	...	29,114	...	...
11	Area served by two or more projects.....acres served 1960...	10,418	...	...	7,582	800	12,792	...	...
PROJECTS, 1960, BY TYPE OF ORGANIZATION									
12	Drains owned by one landowner.....number of projects...	14	10	...	8	1	9	...	...
13	.....acres served ³ ...	16,582	9,238	...	10,759	800	21,092	...	...
14	Cooperative or mutual drains.....number of projects...	3	1	10	2	...	5	...	...
15	.....acres served ³ ...	23,640	673	13,981	3,180	...	10,914	...	...
16	Legally organized public drains.....number of projects...	13	2	...	12	3	16	3	...
17	.....acres served ³ ...	59,933	6,500	...	190,147	19,904	171,972	33,401	...
PROJECTS, 1960, BY YEAR STARTED									
19	1950-1959.....number of projects...	15	2	8	4	...	11	...	...
19	.....acres served ³ ...	40,667	1,515	10,876	3,830	...	34,430	...	...
20	Prior to 1950.....number of projects...	15	11	2	18	4	19	3	...
21	.....acres served ³ ...	59,488	14,896	3,105	200,256	20,704	169,548	33,401	...
DRAINAGE OPERATIONS, 1950-1959 ⁴									
22	Cost of drainage works and services.....projects reporting...	31	13	10	22	4	29	3	...
23	.....dollars...	1,836,849	184,877	269,764	2,681,217	318,150	3,859,568	468,110	...
24	New drainage works constructed, enlarged, or installed.....projects reporting...	26	13	9	11	1	18	1	...
25	.....dollars...	373,934	130,568	240,114	417,869	12,000	196,493	58,064	...
26	Open ditches.....projects reporting...	22	13	2	10	...	16	...	...
27	.....length, miles...	127.9	53.6	3.3	30.6	...	91.7	...	...
28	Tile or covered drains.....projects reporting...	...	...	9	2	1	...	...	...
29	.....length, miles...	...	...	23.4	0.3	1.0	...	...	...
30	Levees or dikes.....projects reporting...	2	8	...	...	...	1	...	...
31	.....length, miles...	8.5	21.7	...	...	...	3.6	...	...
32	Pumps.....projects reporting...	8	8	1	2	...	5	1	...
33	.....number of pumps...	11	11	1	5	...	14	2	...
34	Other (see text).....projects reporting...	1	4	3	4	...	2	...	...
35	Cost of maintenance, operation, repair, and administration.....projects reporting...	24	9	6	20	4	22	3	...
36	.....dollars...	1,462,915	54,309	29,650	2,263,348	306,150	3,663,075	410,046	...

¹Includes Alpine, Calaveras, Del Norte, El Dorado, Humboldt, Imperial, Inyo, Kern, Lassen, Los Angeles, Madera, Mono, Nevada, San Bernardino, San Diego, San Mateo, Shasta, Siskiyou, Tehama, Trinity, and Tulare counties.

²Land served by two or more projects counted only once.

³Areas served by two projects are included for each project. See text.

⁴Includes projects taken over by another project prior to 1960. See text.

State Table 1.—DRAINAGE PROJECTS—NUMBER, AREA, COST, AND WORKS, 1920 TO 1960

[See text for comparability of data.]

Item	1960 Census	1950 Census	1940 Census	1930 Census	1920 Census
AREA					
Approximate land area.....acres...	66,485,760	66,510,080	66,538,880	66,341,120	66,341,120
Land in farms.....acres...	38,787,312	37,953,099	31,527,240	28,876,171	24,462,014
Drainage projects.....number...	16	630	56	NA	NA
Total area in drainage projects.....acres served...	55,496	623,976	468,322	366,719	173,656
Area not used for agriculture or not drained.....acres served...	...	NA	NA	NA	NA
Net area drained and used for agriculture.....acres served...	55,496	NA	1392,132	1305,966	NA
Drainage established 10 years or more before Census date.....acres served...	55,496	NA	NA	NA	NA
Drainage established within 10 years of Census date.....acres served...	...	NA	NA	NA	NA
Area served by two or more projects.....acres served...	...	1,080	972	640	...
PROJECTS BY TYPE OF ORGANIZATION					
Drains owned by one landowner.....number of projects...	3	² 8	NA	NA	NA
.....acres served...	2,638	² 21,421	² 25,291	² 17,351	33,630
Cooperative or mutual drains.....number of projects...	3	² 4	...	...	...
.....acres served...	5,610	² 27,190	...	...	...
Legally organized public drains.....number of projects...	10	² 39	NA	NA	NA
.....acres served...	47,248	² 255,753	² 255,709	² 250,238	138,026
PROJECTS BY YEAR STARTED					
Started 10 years or more before Census date.....number of projects...	16	² 48	NA	NA	...
.....acres served...	55,496	² 292,174	393,363	175,486	...
Started within 10 years of Census date.....number of projects...	...	² 3	NA	NA	NA
.....acres served...	...	² 12,190	74,959	191,233	173,656
OPERATIONS, 10-YEAR PERIOD PRECEDING CENSUS DATE					
Cost of drainage works and services.....projects reporting...	15	² 47	NA	NA	NA
.....dollars...	178,196	773,236	NA	NA	NA
New drainage works constructed, enlarged, or installed.....projects reporting...	3	³ 5	NA	NA	NA
.....cost, dollars...	3,750	³ 23,445	NA	NA	NA
Open ditches.....projects reporting...	1	4	NA	NA	NA
.....length, miles...	0.3	11	NA	NA	NA
Tile or covered drains.....projects reporting...	1	1	NA	NA	NA
.....length, miles...	0.4	1	NA	NA	NA
Levees or dikes.....projects reporting...	...	1	NA	NA	NA
.....length, miles...	...	1	NA	NA	NA
Pumps.....projects reporting...	1	NA	NA	NA	NA
.....number of pumps...	1	NA	NA	NA	NA
Other (see text).....projects reporting...	1	NA	NA	NA	NA
Cost of maintenance, operation, repair, and administration.....projects reporting...	14	NA	NA	NA	NA
.....dollars...	174,446	749,791	NA	NA	NA
STATUS ON CENSUS DATE					
Capital investment.....dollars...	NA	NA	4,890,317	4,358,866	1,081,875
Physical works:					
Open ditches.....length, miles...	NA	NA	972.9	814.9	132.5
Tile drains.....length, miles...	NA	NA	365.3	369.5	195.2
Levees and dikes.....length, miles...	NA	NA	...	...	...
Pumping units.....number of units...	NA	(²)	4	...	...

NA Not available.

¹Not fully comparable. See text.²1950 figures exclude 579 projects and 319,612 acres in "irrigation enterprises"; 1940 figures exclude 187,322 acres in "irrigation enterprises"; 1930 figures exclude 99,130 acres in "irrigation enterprises."³Cost of new works for lands not previously drained.

DRAINAGE OF AGRICULTURAL LANDS

State Table 2.—DRAINAGE

	Size of project (Based on area of agricultural land in project)	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
			Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
					Projects reporting	Acres	Projects reporting	Acres
1	All projects.....	16	55,496	...	16	55,496	...	...
2	500 to 999 acres.....	4	2,892	...	4	2,892	...	...
3	1,000 to 1,999 acres.....	4	5,930	...	4	5,930	...	...
4	2,000 to 4,999 acres.....	4	11,464	...	4	11,464	...	...
5	5,000 to 9,999 acres.....	4	35,210	...	4	35,210	...	...
6	10,000 to 19,999 acres.....	...	...	...	...	...	...	...
7	20,000 to 49,999 acres.....	...	...	...	...	...	...	...
8	50,000 to 99,999 acres.....	...	...	...	...	...	...	...
9	100,000 or more acres.....	...	...	...	...	...	...	...

State Table 3.—DRAINAGE PROJECTS, 1960,

	Type of organization	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
			Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
					Projects reporting	Acres	Projects reporting	Acres
1	All projects.....	16	55,496	...	16	55,496	...	...
2	Drains owned by one landowner.....	3	2,638	...	3	2,638	...	...
3	Cooperative or mutual drains.....	3	5,610	...	3	5,610	...	...
4	Legally organized public drains.....	10	47,248	...	10	47,248	...	...

State Table 4.—DRAINAGE PROJECTS, 1960,

	Year of organization	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
			Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
					Projects reporting	Acres	Projects reporting	Acres
1	All projects.....	16	55,496	...	16	55,496	...	...
2	1950-1959.....	...	...	...	...	...	...	...
3	Prior to 1950.....	16	55,496	...	16	55,496	...	...

PROJECTS, 1960, BY SIZE

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959								
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	
15	178,196	3	3,750	1	0.3	1	0.4	...	...	1	1	1
4	14,297	2	3,000	1	0.3	1	0.4	...	...	1	1	...
3	10,229	1	750	...	...	...	...	...	...	...	...	2
4	45,500	...	...	...	...	...	...	...	...	...	...	4
4	108,170	...	...	...	...	...	...	...	...	...	...	5
...	...	...	...	...	...	...	...	...	...	...	...	6
...	...	...	...	...	...	...	...	...	...	...	...	7
...	...	...	...	...	...	...	...	...	...	...	...	8
...	...	...	...	...	...	...	...	...	...	...	...	9

BY TYPE OF ORGANIZATION

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959								
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	
15	178,196	3	3,750	1	0.3	1	0.4	...	...	1	1	1
3	6,269	1	500	1	0.3	...	...	...	...	...	...	2
2	20,297	...	...	...	...	...	...	...	...	...	...	3
10	151,630	2	3,250	...	...	1	0.4	...	...	1	1	4

BY YEAR OF ORGANIZATION

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959								
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	
15	178,196	3	3,750	1	0.3	1	0.4	...	...	1	1	1
...	...	...	...	...	...	...	...	...	...	...	...	2
15	178,196	3	3,750	1	0.3	1	0.4	...	...	1	1	3

County Table 1.—DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

	Item and Census year	The State	Alamogosa	Conejos	Crowley	Gunnison	Larimer	Logan
AREA								
1	Approximate land area.....acres 1960...	66,485,760	460,800	812,160	513,920	2,072,320	1,672,960	1,169,280
2	Land in farms.....acres 1959.....	38,787,312	429,526	574,943	424,904	251,640	770,520	1,088,862
3	Drainage projects..... number 1960.....	16	1	2	2	1	1	2
4	..... 1950.....	630	29	31	24	27	36	13
5	Total area in drainage projects ¹ acres served 1960.....	55,496	640	10,590	12,463	758	3,000	3,161
6	..... 1950.....	623,976	26,086	53,151	52,294	3,514	9,267	13,020
7	Area not used for agriculture or not drained..... acres served 1960.....	...	...	...	...	...	...	...
8	Net area drained and used for agriculture..... acres served 1960.....	55,496	640	10,590	12,463	758	3,000	3,161
9	Drainage established before 1950..... acres served 1960.....	55,496	640	10,590	12,463	758	3,000	3,161
10	Area added, 1950-1959..... acres served 1960.....	...	...	...	...	...	...	...
11	Area served by two or more projects..... acres served 1960.....	...	...	...	...	...	...	...
PROJECTS, 1960, BY TYPE OF ORGANIZATION								
12	Drains owned by one landowner..... number of projects...	3	...	...	...	1	...	...
13	..... acres served ²	2,638	...	...	...	758	...	...
14	Cooperative or mutual drains..... number of projects.....	3	...	...	...	...	1	1
15	..... acres served ²	5,610	...	...	...	...	3,000	960
16	Legally organized public drains..... number of projects.....	10	1	2	2	...	...	1
17	..... acres served ²	47,248	640	10,590	12,463	...	...	2,201
PROJECTS, 1960, BY YEAR STARTED								
18	1950-1959..... number of projects.....	...	...	...	...	...	...	...
19	..... acres served ².....	...	...	...	...	...	...	...
20	Prior to 1960..... number of projects.....	16	1	2	2	1	1	2
21	..... acres served ²	55,496	640	10,590	12,463	758	3,000	3,161
DRAINAGE OPERATIONS, 1950-1959 ³								
22	Cost of drainage works and services.....projects reporting...	15	1	2	2	(4)	(4)	(4)
23	..... dollars.....	178,196	5,000	35,545	41,770	(4)	(4)	(4)
24	New drainage works constructed, enlarged, or installed.....projects reporting...	3	...	...	...	(4)	...	...
25	..... dollars.....	3,750	...	...	...	(4)	...	...
26	Open ditches.....projects reporting...	1	...	...	...	(4)	...	...
27	..... length, miles.....	0.3	...	...	...	(4)	...	...
28	Tile or covered drains.....projects reporting...	1	...	...	...	...	...	...
29	..... length, miles.....	0.4	...	...	...	...	...	...
30	Levees or dikes.....projects reporting...	...	...	...	...	...	...	...
31	..... length, miles.....	...	...	...	...	...	...	...
32	Pumps.....projects reporting...	1	...	...	...	...	1	...
33	..... number of pumps.....	1	...	...	...	...	...	...
34	Other (see text).....projects reporting...	1	...	...	...	...	...	...
35	Cost of maintenance, operation, repair, and administration.....projects reporting...	14	1	2	2	...	(4)	(4)
36	..... dollars.....	174,446	5,000	35,545	41,770	...	(4)	(4)

¹Land served by two or more projects counted only once.²Acres served by two projects are included for each project. See text.³Includes projects taken over by another project prior to 1960. See text.⁴Included in State total only.

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data.]

Item and Census year	Mesa	Montrose	Otero	Prowers	Rio Grande	Saguache	All other counties ¹
AREA							
1 Approximate land area.....acres 1960...	2,119,680	1,432,960	² 810,880	1,040,640	586,240	2,012,160	36,108,160
2 Land in farms.....acres 1950...	713,603	585,145	² 842,944	924,330	206,064	502,399	20,778,262
3 Drainage projects..... number 1960...	1	1	2	2	2	1	...
4 1950...	14	18	17	41	24	29	359
5 Total area in drainage projects ³ acres served 1960...	574	1,650	10,020	8,600	2,440	1,600	...
6 1950...	100,447	29,365	39,708	64,860	99,829	47,888	84,547
7 Area not used for agriculture or not drained..... acres served 1960...	...	...	...	...	...	...	...
8 Net area drained and used for agriculture..... acres served 1960...	574	1,650	10,020	8,600	2,440	1,600	...
9 Drainage established before 1950..... acres served 1960...	74	1,650	10,020	8,600	2,440	1,600	...
10 Area added, 1950-1959..... acres served 1960...	...	...	...	...	...	...	...
11 Area served by two or more projects..... acres served 1960...	...	...	...	...	...	...	...
PROJECTS, 1960, BY TYPE OF ORGANIZATION							
12 Drains owned by one landowner..... number of projects...	...	...	...	1	1	...	...
13 acres served ⁴...	...	...	...	600	1,280	...	...
14 Cooperative or mutual drains..... number of projects...	...	1	...	...	...	...	...
15 acres served ⁴...	...	1,650	...	...	...	...	...
16 Legally organized public drains..... number of projects...	1	...	2	1	1	1	...
17 acres served ⁴ ...	574	...	10,020	8,000	1,160	1,600	...
PROJECTS, 1960, BY YEAR STARTED							
18 1950-1959..... number of projects...	...	...	...	...	...	...	...
19 acres served ⁴...	...	...	...	...	...	...	...
20 Prior to 1950..... number of projects...	1	1	2	2	2	1	...
21 acres served ⁴ ...	574	1,650	10,020	8,600	2,440	1,600	...
DRAINAGE OPERATIONS, 1950-1959 ⁵							
22 Cost of drainage works and services.....projects reporting...	1	...	2	(⁶)	(⁶)	1	...
23 dollars...	9,500	...	32,315	(⁶)	(⁶)	9,000	...
24 New drainage works constructed, enlarged, or installed.....projects reporting...	1	...	1	...	...	...	...
25 dollars...	2,500	...	750	...	...	...	...
26 Open ditches.....projects reporting...	...	...	...	...	...	...	...
27 length, miles...	...	...	...	...	...	...	...
28 Tile or covered drains.....projects reporting...	1	...	...	...	...	...	...
29 length, miles...	0.4	...	...	...	...	...	...
30 Levees or dikes.....projects reporting...	...	...	...	...	...	...	...
31 length, miles...	...	...	...	...	...	...	...
32 Pumps.....projects reporting...	1	...	...	...	...	...	...
33 number of pumps...	1	...	...	...	...	...	...
34 Other (see text).....projects reporting...	...	...	1	...	...	...	...
35 Cost of maintenance, operation, repair, and administration.....projects reporting...	1	...	2	(⁶)	(⁶)	1	...
36 dollars...	7,000	...	31,565	(⁶)	(⁶)	5,000	...

¹Includes Adams, Arapahoe, Arapahoe, Bent, Boulder, Chaffee, Costilla, Custer, Delta, Denver, Dolores, Eagle, El Paso, Fremont, Garfield, Grand, Huerfano, Jackson, Jefferson, La Plata, Las Animas, Moffat, Montezuma, Morgan, Otero, Pitkin, Pueblo, Rio Blanco, Routt, Summit, Washington, and Weld counties.

²The excess of farm acreage over approximate land area is due to the fact that the entire acreage of a farm is tabulated as in the county in which the headquarters is located, even though a part of the farm may be situated in an adjoining county.

³Land served by two or more projects counted only once.

⁴Acres served by two projects are included for each project. See text.

⁵Includes projects taken over by another project prior to 1960. See text.

⁶Included in State total only.

State Table 1.—DRAINAGE PROJECTS—NUMBER, AREA, COST, AND WORKS, 1920 TO 1960

[See text for comparability of data]

Item	1960 Census	1950 Census	1940 Census	1930 Census	1920 Census
AREA					
Approximate land area.....acres...	1,265,920	1,265,920	1,265,920	1,257,600	1,257,600
Land in farms.....acres...	762,526	851,291	895,507	900,815	944,511
Drainage projects.....number...	60	¹ 2	287	...	...
Total area in drainage projects.....acres served...	356,702	352,547	395,014	...	...
Area not used for agriculture or not drained.....acres served...	15,780	NA	NA	...	...
Net area drained and used for agriculture.....acres served...	340,922	NA	² 394,164	...	...
Drainage established 10 years or more before Census date.....acres served...	340,066	NA	NA	...	...
Drainage established within 10 years of Census date.....acres served...	856	NA	NA	...	...
Area served by two or more projects.....acres served...	600	NA	458,548	...	...
PROJECTS BY TYPE OF ORGANIZATION					
Drains owned by one landowner.....number of projects...	...	(¹)	...	...	...
.....acres served...	...	(¹)	...	...	...
Cooperative or mutual drains.....number of projects...	1	(¹)	...	...	...
.....acres served...	780	(¹)	...	...	...
Legally organized public drains.....number of projects...	59	¹ 2	...	...	...
.....acres served...	340,742	¹ 352,547	395,014	...	...
PROJECTS BY YEAR STARTED					
Started 10 years or more before Census date.....number of projects...	50	NA	NA	...	...
.....acres served...	318,700	NA	280,632	...	...
Started within 10 years of Census date.....number of projects...	10	NA	NA	...	...
.....acres served...	22,822	NA	114,382	...	...
OPERATIONS, 10-YEAR PERIOD PRECEDING CENSUS DATE					
Cost of drainage works and services.....projects reporting...	48	2	NA	...	...
.....dollars...	476,944	173,300	NA	...	...
New drainage works constructed, enlarged, or installed.....projects reporting...	33	² 1	NA	...	...
.....cost, dollars...	399,511	² 3,326	NA	...	...
Open ditches.....projects reporting...	33	1	NA	...	...
.....length, miles...	215.7	2	NA	...	...
Tile or covered drains.....projects reporting...	...	...	NA	...	...
.....length, miles...	...	...	NA	...	...
Levees or dikes.....projects reporting...	...	...	NA	...	...
.....length, miles...	...	...	NA	...	...
Pumps.....projects reporting...	...	NA	NA	...	...
.....number of pumps...	...	NA	NA	...	...
Other (see text).....projects reporting...	...	NA	NA	...	...
Cost of maintenance, operation, repair, and administration.....projects reporting...	25	2	NA	...	...
.....dollars...	77,433	169,974	NA	...	...
STATUS ON CENSUS DATE					
Capital investment.....dollars...	NA	NA	454,883	...	...
Physical works:					
Open ditches.....length, miles...	NA	NA	1,482.3	...	...
Tile drains.....length, miles...	NA	NA	...	...	...
Levees and dikes.....length, miles...	NA	NA	...	...	...
Pumping units.....number of units...	NA	NA	...	...	...

NA Not available.

¹In 1950 all drains within a county were counted as one combined project. See text.²Not fully comparable. See text.³Cost of new works for lands not previously drained.

State Table 2.—DRAINAGE

	Size of project (Based on area of agricultural land in project)	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
			Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
					Projects reporting	Acres	Projects reporting	Acres
1	All projects.....	60	341,522	1,200	59	340,666	2	856
2	500 to 999 acres.....	18	11,961	600	17	11,371	1	590
3	1,000 to 1,999 acres.....	24	31,948	...	24	31,682	1	266
4	2,000 to 4,999 acres.....	14	51,448	600	14	51,448	...	...
5	5,000 to 9,999 acres.....	1	6,346	...	1	6,346	...	...
6	10,000 to 19,999 acres.....	1	11,700	...	1	11,700	...	...
7	20,000 to 49,999 acres.....	...	...	...	...	...	...	...
8	50,000 to 99,999 acres.....	...	...	...	...	...	...	...
9	100,000 or more acres.....	12	228,119	...	2	228,119	...	...

¹The area within each county served by drains for which there is now no active management, was counted as one combined project. See text.

State Table 3.—DRAINAGE PROJECTS, 1960,

	Type of organization	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
			Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
					Projects reporting	Acres	Projects reporting	Acres
1	All projects.....	60	341,522	1,200	59	340,666	2	856
2	Drains owned by one landowner.....	...	...	...	...	...	...	...
3	Cooperative or mutual drains.....	1	780	...	1	780	...	...
4	Legally organized public drains.....	59	340,742	1,200	58	339,886	2	856

State Table 4.—DRAINAGE PROJECTS, 1960,

	Year of organization	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
			Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
					Projects reporting	Acres	Projects reporting	Acres
1	All projects.....	60	341,522	1,200	59	340,666	2	856
2	1950-1959.....	10	22,822	...	9	22,232	1	590
3	Prior to 1950.....	50	318,700	1,200	50	318,434	1	266

PROJECTS, 1960, BY SIZE

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959								
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	
48	476,944	33	399,511	33	215.7	...	...	...	...	...	...	...
15	74,085	12	61,653	12	46.3	...	...	...	...	...	...	...
20	141,869	14	113,281	14	74.5	...	...	...	...	...	...	...
11	251,237	7	224,577	7	94.9	...	...	...	...	...	...	...
1	2,500	...	...	...	...	...	...	...	...	...	...	...
1	7,253	...	...	...	...	...	...	...	...	...	...	...
...
...
...
...

BY TYPE OF ORGANIZATION

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959								
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	
48	476,944	33	399,511	33	215.7	...	...	...	...	...	...	...
...
1	4,390	1	3,000	1	2.0	...	...	...	...	...	...	...
47	472,554	32	396,511	32	213.7	...	...	...	...	...	...	...

BY YEAR OF ORGANIZATION

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959								
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	
48	476,944	33	399,511	33	215.7	...	...	...	...	...	...	...
10	267,716	10	250,235	10	98.6	...	...	...	...	...	...	...
38	209,228	23	149,276	23	117.1	...	...	...	...	...	...	...

DRAINAGE OF AGRICULTURAL LANDS

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

Item and Census year		The State	Kent	Sussex	Item and Census year		The State	Kent	Sussex
AREA					PROJECTS, 1960, BY YEAR STARTED				
1	Approximate land area.....acres 1960...	1,265,920	380,800	605,440	18	1950-1959.....number of projects...	10	3	7
2	Land in farms.....acres 1959...	762,526	251,934	380,942	19	.....acres served ² ..	22,822	8,996	13,826
3	Drainage projects.....number 1960...	60	7	53	20	Prior to 1950.....number of projects...	50	4	46
4	.....1950...	2	1	1	21	.....acres served ² ..	318,700	125,793	192,907
					DRAINAGE OPERATIONS, 1950-1959 ³				
5	Total area in drainage projects ¹.....acres served 1960...	356,702	134,789	221,913	22	Cost of drainage works and services.....projects reporting...	48	6	42
6	.....1950...	352,547	133,129	219,418	23	.....dollars...	476,944	111,546	365,398
7	Area not used for agriculture or not drained.....acres served 1960...	15,780	...	15,780	24	New drainage works constructed, enlarged, or installed.....projects reporting...	33	6	27
8	Net area drained and used for agriculture.....acres served 1960...	340,922	134,789	206,133	25	.....dollars...	399,511	106,156	293,355
9	Drainage established before 1950.....acres served 1960...	340,066	134,789	205,277	26	Open ditches.....projects reporting...	33	6	27
10	Area added, 1950-1959.....acres served 1960...	856	...	856	27	.....length, miles...	215.7	45.6	170.1
11	Area served by two or more projects.....acres served 1960...	600	...	600	28	Tile or covered drains.....projects reporting...	...	...	...
					29	.....length, miles...	...	...	...
PROJECTS, 1960, BY TYPE OF ORGANIZATION					30	Levees or dikes.....projects reporting...	...	...	...
12	Drains owned by one landowner.....number of projects...	...	...	...	31	.....length, miles...	...	...	...
13	.....acres served ²..	...	...	...	32	Pumps.....projects reporting...	...	...	...
14	Cooperative or mutual drains.....number of projects...	1	1	...	33	.....number of pumps...	...	...	...
15	.....acres served ² ..	780	780	...	34	Other (see text).....projects reporting...	...	...	...
16	Legally organized public drains.....number of projects...	59	6	53	35	Cost of maintenance, operation, repair, and administration.....projects reporting...	25	2	23
17	.....acres served ² ..	340,742	134,009	206,733	36	.....dollars...	77,433	5,390	72,043

¹Land served by two or more projects counted only once.²Acres served by two projects are included for each project. See text.³Includes projects taken over by another project prior to 1960. See text.

State Table 1.—DRAINAGE PROJECTS—NUMBER, AREA, COST, AND WORKS, 1920 TO 1960

[See text for comparability of data.]

Item	1960 Census	1950 Census	1940 Census	1930 Census	1920 Census
AREA					
Approximate land area.....acres...	34,721,280	34,727,680	34,727,680	35,111,040	35,111,040
Land in farms.....acres...	15,236,521	16,527,536	8,337,708	5,026,617	6,046,691
Drainage projects.....number...	516	1,889	101	NA	NA
Total area in drainage projects.....acres served...	9,222,517	6,083,676	5,699,022	5,954,934	1,637,073
Area not used for agriculture or not drained.....acres served...	4,367,190	NA	NA	NA	NA
Not area drained and used for agriculture.....acres served...	4,855,327	NA	1,614,220	1,398,200	NA
Drainage established 10 years or more before Census date.....acres served...	4,306,371	NA	NA	NA	NA
Drainage established within 10 years of Census date.....acres served...	548,956	NA	NA	NA	NA
Area served by two or more projects.....acres served...	1,353,192	1,103,349	764,424	1,418,693	122,868
PROJECTS BY TYPE OF ORGANIZATION					
Drains owned by one landowner.....number of projects...	388	² 122	NA	NA	NA
.....acres served...	1,836,408	² 385,291	22,640	105,533	118,890
Cooperative or mutual drains.....number of projects...	36	² 13	...	...	...
.....acres served...	274,431	² 118,476	...	...	...
Legally organized public drains.....number of projects...	92	² 103	NA	NA	NA
.....acres served...	4,237,652	² 5,430,151	5,676,382	5,849,401	1,518,183
PROJECTS BY YEAR STARTED					
Started 10 years or more before Census date.....number of projects...	319	² 107	NA	NA	NA
.....acres served...	5,520,054	² 5,432,410	5,678,886	5,438,486	6,970
Started within 10 years of Census date.....number of projects...	197	² 131	NA	NA	NA
.....acres served...	828,437	² 501,508	20,136	516,448	1,630,103
OPERATIONS, 10-YEAR PERIOD PRECEDING CENSUS DATE					
Cost of drainage works and services.....projects reporting...	450	² 207	NA	NA	NA
.....dollars...	91,627,636	18,602,511	NA	NA	NA
New drainage works constructed, enlarged, or installed.....projects reporting...	338	² 63	NA	NA	NA
.....cost, dollars...	68,012,516	² 2,707,207	NA	NA	NA
Open ditches.....projects reporting...	327	145	NA	NA	NA
.....length, miles...	10,554.6	2,263	NA	NA	NA
Tile or covered drains.....projects reporting...	9	4	NA	NA	NA
.....length, miles...	23.2	16	NA	NA	NA
Levees or dikes.....projects reporting...	119	97	NA	NA	NA
.....length, miles...	1,198.1	661	NA	NA	NA
Pumps.....projects reporting...	139	NA	NA	NA	NA
.....number of pumps...	548	NA	NA	NA	NA
Other (see text).....projects reporting...	28	NA	NA	NA	NA
Cost of maintenance, operation, repair, and administration.....projects reporting...	312	NA	NA	NA	NA
.....dollars...	23,615,120	15,895,304	NA	NA	NA
STATUS ON CENSUS DATE					
Capital investment.....dollars...	NA	NA	43,356,692	45,487,795	13,846,807
Physical works:					
Open ditches.....length, miles...	NA	NA	5,022.1	5,112.6	1,990.8
Tile drains.....length, miles...	NA	NA	...	...	...
Levees and dikes.....length, miles...	NA	NA	470.6	718.4	66.2
Pumping units.....number of units...	NA	² 354	68	37	NA

NA Not available.

¹Not fully comparable. See text.²1950 figures exclude 1,651 projects and 149,758 acres in "irrigation enterprises."³Cost of new works for lands not previously drained.

State Table 2.—DRAINAGE

	Size of project (Based on area of agricultural land in project)	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
			Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
					Projects reporting	Acres	Projects reporting	Acres
1	All projects.....	516	6,348,491	2,846,356	398	5,783,196	152	565,295
2	500 to 999 acres.....	148	101,911	51,503	99	69,467	53	32,444
3	1,000 to 1,999 acres.....	109	147,268	69,044	78	103,931	40	43,337
4	2,000 to 4,999 acres.....	107	340,809	158,109	85	253,420	28	87,389
5	5,000 to 9,999 acres.....	66	473,168	158,720	57	372,429	15	100,739
6	10,000 to 19,999 acres.....	38	531,642	224,744	35	468,666	8	62,976
7	20,000 to 49,999 acres.....	31	851,598	290,451	28	768,398	4	83,200
8	50,000 to 99,999 acres.....	13	909,054	297,828	12	757,044	3	152,010
9	100,000 or more acres.....	4	2,993,041	1,635,957	4	2,989,841	1	3,200

State Table 3.—DRAINAGE PROJECTS, 1960.

	Type of organization	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
			Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
					Projects reporting	Acres	Projects reporting	Acres
1	All projects.....	516	6,348,491	2,846,356	398	5,783,196	152	565,295
2	Drains owned by one landowner.....	388	1,836,408	616,229	285	1,426,544	129	409,864
3	Cooperative or mutual drains.....	36	274,431	113,125	24	184,798	18	89,633
4	Legally organized public drains.....	92	4,237,652	2,117,002	89	4,171,854	5	65,798

State Table 4.—DRAINAGE PROJECTS, 1960.

	Year of organization	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
			Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
					Projects reporting	Acres	Projects reporting	Acres
1	All projects.....	516	6,348,491	2,846,356	398	5,783,196	152	565,295
2	1950-1959.....	197	828,437	321,438	79	326,869	132	501,568
3	Prior to 1950.....	319	5,520,054	2,524,918	319	5,456,327	20	63,727

PROJECTS, 1960, BY SIZE

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959								
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	
450	91,627,636	338	68,012,516	327	10,554.6	9	23.2	119	1,198.1	139	548	28
133	2,728,241	100	1,226,231	96	1,004.6	4	2.6	29	115.4	37	86	4
98	2,697,519	80	1,344,155	79	1,702.7	1	0.1	24	114.9	36	89	8
95	5,432,495	81	2,996,804	79	1,999.4	3	20.4	37	249.2	36	129	5
54	4,040,408	31	1,778,360	31	934.6	1	0.1	13	90.7	12	32	2
32	4,921,366	21	2,156,192	20	674.4	...	...	6	85.0	7	136	4
23	6,705,785	16	2,955,627	14	1,529.0	...	...	7	82.8	6	21	...
11	6,347,074	7	2,701,107	6	2,390.9	...	...	2	52.0	4	31	4
4	58,794,748	2	52,854,040	2	319.0	...	...	1	408.1	1	24	1

BY TYPE OF ORGANIZATION

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959								
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	
450	91,627,636	338	68,012,516	327	10,554.6	9	23.2	119	1,198.1	139	548	28
351	20,403,349	296	12,781,246	292	9,564.4	7	23.0	110	763.3	123	492	21
29	795,766	23	485,027	21	173.4	2	0.2	7	25.7	6	9	4
70	70,428,521	19	54,746,243	14	816.8	...	...	2	409.1	10	47	3

BY YEAR OF ORGANIZATION

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959								
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	
450	91,627,636	338	68,012,516	327	10,554.6	9	23.2	119	1,198.1	139	548	28
197	8,318,425	189	6,316,478	187	5,306.0	4	20.3	99	333.0	56	174	18
253	83,309,211	149	61,696,038	140	5,248.6	5	2.9	60	865.1	83	374	10

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

Item and Census year	The State	Baker	Brevard	Broward	Charlotte	Collier	Dade	De Soto
AREA								
1 Approximate land area.....acres 1960...	34,721,280	374,400	660,480	779,520	451,200	1,300,480	1,314,560	459,520
2 Land in farms.....acres 1959...	15,236,521	43,662	264,497	80,821	235,056	316,424	128,550	294,261
3 Drainage projects.....number 1960...	516	2	14	25	6	5	9	24
4 1950...	1,889	2	93	55	14	5	16	65
5 Total area in drainage projects ¹.....acres served 1960...	9,222,517	2,274	659,840	314,520	120,140	34,400	647,680	170,058
6 1950...	6,083,676	2,274	100,781	740,564	106,791	350,491	1,097,162	26,214
7 Area not used for agriculture or not drained.....acres served 1960...	4,367,190	...	478,322	140,520	2,200	...	376,680	2,720
8 Net area drained and used for agriculture.....acres served 1960...	4,855,327	2,274	181,518	174,000	117,940	34,400	271,000	167,338
9 Drainage established before 1950.....acres served 1960...	4,306,371	2,274	147,708	174,000	94,020	1,000	271,000	143,838
10 Area added, 1950-1959.....acres served 1960...	548,956	...	33,810	...	23,920	33,400	...	23,500
11 Area served by two or more projects.....acres served 1960...	1,353,192	...	...	89,204	...	...	271,000	...
PROJECTS, 1960, BY TYPE OF ORGANIZATION								
12 Drains owned by one landowner.....number of projects...	388	2	11	20	5	5	4	16
13 acres served ² ...	1,836,408	2,274	116,410	29,949	114,300	24,400	23,493	142,688
14 Cooperative or mutual drains.....number of projects...	36	...	...	...	...	...	1	2
15 acres served ² ...	274,431	...	...	...	...	...	700	12,500
16 Legally organized public drains.....number of projects...	92	...	3	5	1	...	4	6
17 acres served ² ...	4,237,652	...	65,108	237,800	3,640	...	550,789	12,150
PROJECTS, 1960, BY YEAR STARTED								
18 1960-1959.....number of projects...	197	...	4	5	2	4	2	4
19 acres served ² ...	828,437	...	32,970	8,891	23,920	20,640	1,280	13,890
20 Prior to 1950.....number of projects...	319	2	10	20	4	1	7	20
21 acres served ² ...	5,520,054	2,274	148,548	258,858	94,020	13,760	573,702	153,448
DRAINAGE OPERATIONS, 1950-1959 ³								
22 Cost of drainage works and services.....projects reporting...	450	2	13	21	5	5	10	18
23 dollars...	91,627,636	(⁴)	5,003,057	6,914,162	36,500	96,222	5,038,389	210,500
24 New drainage works constructed, enlarged, or installed.....projects reporting...	338	2	10	15	3	5	5	15
25 dollars...	68,012,516	(⁴)	3,030,091	5,769,650	31,000	56,499	3,302,347	103,750
26 Open ditches.....projects reporting...	327	2	10	13	3	5	5	15
27 length, miles...	10,554.6	(⁴)	2,179.1	180.1	50.0	139.5	67.8	589.0
28 Tile or covered drains.....projects reporting...	9	...	1	...	...	...	...	...
29 length, miles...	23.2	...	2.0	...	...	...	...	...
30 Levees or dikes.....projects reporting...	119	...	7	6	...	2	3	...
31 length, miles...	1,198.1	...	84.6	63.8	...	33.0	16.8	...
32 Pumps.....projects reporting...	139	...	7	12	...	2	3	...
33 number of pumps...	548	...	29	34	...	14	5	...
34 Other (see text).....projects reporting...	28	...	...	...	...	...	1	...
35 Cost of maintenance, operation, repair, and administration.....projects reporting...	312	1	10	19	3	2	9	14
36 dollars...	23,615,120	(⁴)	1,972,966	1,144,512	5,500	39,723	1,736,042	106,750

¹Land served by two or more projects counted only once.²Acres served by two projects are included for each project. See text.³Includes projects taken over by another project prior to 1960. See text.⁴Included in State total only.

County Table 1. —DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

Item and Census year		Dixie	Duval	Flagler	Glades	Hardee	Handry	Highlands	Hillborough
AREA									
1	Approximate land area.....acres 1960...	440,320	497,280	309,120	477,440	403,200	759,680	666,240	1,665,600
2	Land in farms.....acres 1959...	168,944	78,130	172,620	332,397	325,717	641,483	415,854	1,773,468
3	Drainage projects.....number 1960...	3	1	3	33	13	36	34	23
4	.....1950...	1	3	14	17	239	11	21	140
5	Total area in drainage projects ¹.....acres served 1960...	15,360	57,600	62,996	477,440	48,325	759,680	442,875	116,605
6	.....1950...	640	57,662	120,065	304,487	27,883	423,064	163,612	84,463
7	Area not used for agriculture or not drained.....acres served 1960...	...	3,720	27,191	267,846	...	376,182	107,352	13,300
8	Net area drained and used for agriculture.....acres served 1960...	15,360	53,880	35,805	209,594	48,325	383,498	335,523	103,305
9	Drainage established before 1950.....acres served 1960...	640	53,880	35,805	208,480	45,375	356,115	275,150	83,087
10	Area added, 1950-1959.....acres served 1960...	14,720	...	...	1,114	2,950	27,383	60,373	20,218
11	Area served by two or more projects.....acres served 1960...	...	...	...	119,242	...	120,844	125,601	4,550
PROJECTS, 1960, BY TYPE OF ORGANIZATION									
12	Drains owned by one landowner.....number of projects...	...	...	...	27	6	25	28	14
13	.....acres served ²...	...	...	...	74,403	8,215	138,726	220,160	22,899
14	Cooperative or mutual drains.....number of projects...	2	...	...	1	5	4	4	1
15	.....acres served ³ ...	14,720	...	...	2,000	22,110	53,773	62,755	20,960
16	Legally organized public drains.....number of projects...	1	1	3	5	2	7	2	8
17	.....acres served ⁴ ...	640	53,880	35,805	268,227	18,000	321,873	216,901	63,996
PROJECTS, 1960, BY YEAR STARTED									
18	1950-1959.....number of projects...	2	...	...	12	3	23	16	13
19	.....acres served ⁵ ...	14,720	...	...	24,156	2,950	116,421	91,010	20,078
20	Prior to 1950.....number of projects...	1	1	3	21	10	13	18	10
21	.....acres served ⁵ ...	640	53,880	35,805	320,474	45,375	397,951	408,806	87,777
DRAINAGE OPERATIONS, 1950-1959 ⁶									
22	Cost of drainage works and services.....projects reporting...	3	...	1	34	5	37	33	18
23	.....dollars...	13,267	...	10,000	3,794,191	36,965	3,762,944	2,502,931	503,379
24	New drainage works constructed, enlarged, or installed.....projects reporting...	2	...	...	26	4	29	31	16
25	.....dollars...	11,800	...	...	2,857,054	27,865	2,911,096	1,863,935	308,579
26	Open ditches.....projects reporting...	2	...	...	25	4	29	31	16
27	.....length, miles...	7.9	...	...	604.0	45.5	451.0	777.3	217.0
28	Tile or covered drains.....projects reporting...	...	...	...	...	...	...	1	...
29	.....length, miles...	...	...	...	...	...	...	0.1	...
30	Levees or dikes.....projects reporting...	...	...	...	13	...	17	11	1
31	.....length, miles...	...	...	...	92.4	...	123.5	71.5	3.0
32	Pumps.....projects reporting...	...	...	...	13	...	15	9	2
33	.....number of pumps...	...	...	...	29	...	37	27	8
34	Other (see text).....projects reporting...	...	...	...	2	...	2	7	...
35	Cost of maintenance, operation, repair, and administration.....projects reporting...	3	...	1	26	2	27	16	4
36	.....dollars...	1,467	...	10,000	937,137	9,100	851,848	638,996	195,000

¹The excess of farm acreage over approximate land area is due to the fact that the entire acreage of a farm is tabulated as in the county in which the headquarters is located, even though a part of the farm may be situated in an adjoining county.

²Land served by two or more projects counted only once.

³Acres served by two projects are included for each project. See text.

⁴Includes projects taken over by another project prior to 1960. See text.

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data.]

Item and Census year	Indian River	Lafayette	Lake	Lee	Levy	Manatee	Marion	Martin
AREA								
1 Approximate land area.....acres 1980...	327,040	347,520	637,440	503,040	705,920	440,320	1,034,880	397,760
2 Land in farms.....acres 1959...	197,751	107,549	329,186	142,509	307,766	252,812	538,857	126,618
3 Drainage projects..... number 1980...	17	1	15	20	3	16	1	45
4	1950...	188	...	23	74	...	292	4
5 Total area in drainage projects ¹ acres served 1960...	318,640	1,000	13,174	244,088	1,600	76,838	2,500	341,500
6	1950...	123,333	...	1,341	51,740	...	78,691	687
7 Area not used for agriculture or not drained..... acres served 1960...	180,796	...	...	129,030	...	1,820	...	123,744
8 Net area drained and used for agriculture..... acres served 1960...	137,844	1,000	13,174	115,058	1,600	75,018	2,500	217,756
9 Drainage established before 1950..... acres served 1960...	122,745	...	6,074	83,618	...	74,039	2,500	183,521
10 Area added, 1950-1959..... acres served 1960...	15,099	1,000	7,100	31,440	1,600	979	...	34,235
11 Area served by two or more projects..... acres served 1960...	29,580	...	...	...	...	1,150	...	109,889
PROJECTS, 1960, BY TYPE OF ORGANIZATION								
12 Drains owned by one landowner..... number of projects...	13	1	13	16	2	1	1	40
13	acres served ² ...	67,519	1,000	11,074	83,770	1,100	365	2,500
14 Cooperative or mutual drains..... number of projects...	...	...	2	2	...	...	...	2
15	acres served ²...	...	2,100	8,640	...	...	...	21,220
16 Legally organized public drains..... number of projects...	4	...	...	2	1	15	...	3
17	acres served ² ...	99,905	...	22,648	500	75,803	...	158,903
PROJECTS, 1960, BY YEAR STARTED								
18 1950-1959..... number of projects...	6	1	8	3	3	1	...	26
19	acres served ² ...	10,860	1,000	4,900	31,440	1,600	979	72,716
20 Prior to 1950..... number of projects...	11	...	7	17	...	15	1	19
21	acres served ² ...	156,564	...	8,274	83,618	...	75,189	2,500
DRAINAGE OPERATIONS, 1950-1959 ³								
22 Cost of drainage works and services.....projects reporting...	16	1	14	14	3	13	1	43
23	dollars...	1,758,101	(⁴)	241,700	340,271	14,100	333,447	(⁴)
24 New drainage works constructed, enlarged, or installed.....projects reporting...	9	1	14	8	3	1	1	41
25	dollars...	362,200	(⁴)	170,240	120,915	11,750	2,500	(⁴)
26 Open ditches.....projects reporting...	9	1	14	8	3	1	1	41
27	length, miles...	173.0	(⁴)	140.5	81.5	7.1	2.0	(⁴)
28 Tile or covered drains.....projects reporting...	...	...	1	4	...	...	...	...
29	length, miles...	...	...	0.1	20.7	...	...	...
30 Levees or dikes.....projects reporting...	5	...	8	4	1	...	1	19
31	length, miles...	52.0	...	21.3	19.0	1.5	...	(⁴)
32 Pumps.....projects reporting...	6	...	7	1	1	...	...	12
33	number of pumps...	24	...	10	7	1	...	130
34 Other (see text).....projects reporting...	...	...	...	1	...	...	...	7
35 Cost of maintenance, operation, repair, and administration.....projects reporting...	12	1	10	10	3	12	1	25
36	dollars...	1,395,901	(⁴)	71,460	219,356	2,350	330,947	(⁴)

¹Land served by two or more projects counted only once.²Acres served by two projects are included for each project. See text.³Includes projects taken over by another project prior to 1960. See text.⁴Included in State total only.

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data.]

	Item and Census year	Monroe	Nassau	Okeechobee	Orange	Osceola	Palm Beach	Pasco	Pinellas
	AREA								
1	Approximate land area.....acres 1960...	636,160	416,000	499,200	586,240	848,000	1,265,920	480,640	168,960
2	Land in farms.....acres 1959...	904	87,225	367,832	349,007	814,999	372,408	309,807	57,052
3	Drainage projects.....number 1960...	1	2	15	10	21	84	8	1
4	.....1950...	1	2	3	19	7	167	8	12
5	Total area in drainage projects ¹.....acres served 1960...	126,400	12,020	499,200	372,380	848,000	1,097,920	17,400	168,960
6	.....1950...	115,200	11,523	85,700	10,372	105	1,133,278	20,310	29,097
7	Area not used for agriculture or not drained.....acres served 1960...	126,400	...	382,362	305,600	680,085	199,200	...	81,160
8	Net area drained and used for agriculture.....acres served 1960...	(²)	12,020	116,838	66,780	167,915	898,720	17,400	87,800
9	Drainage established before 1950.....acres served 1960...	...	11,520	112,241	62,300	92,600	898,720	16,800	28,800
10	Area added, 1950-1959.....acres served 1960...	...	500	4,597	4,480	75,315	...	600	59,000
11	Area served by two or more projects.....acres served 1960...	...	...	13,940	...	...	383,133	...	...
	PROJECTS, 1960, BY TYPE OF ORGANIZATION								
12	Drains owned by one landowner.....number of projects...	...	1	13	7	19	66	7	...
13	.....acres served ³...	...	500	77,938	7,120	167,315	163,506	16,750	...
14	Cooperative or mutual drains.....number of projects...	...	...	...	...	1	4	...	...
15	.....acres served ³...	...	...	...	...	600	7,080	...	...
16	Legally organized public drains.....number of projects...	1	1	2	3	1	14	1	1
17	.....acres served ³ ...	(²)	11,520	54,980	59,660	...	1,132,072	650	87,800
	PROJECTS, 1960, BY YEAR STARTED								
18	1950-1959.....number of projects...	...	1	9	6	11	15	1	1
19	.....acres served ³...	...	500	14,477	6,080	67,200	90,436	600	87,800
20	Prior to 1950.....number of projects...	1	1	6	4	10	69	7	...
21	.....acres served ³ ...	(²)	11,520	118,441	60,700	100,715	1,212,222	16,800	...
	DRAINAGE OPERATIONS, 1950-1959 ⁴								
22	Cost of drainage works and services.....projects reporting...	1	1	16	8	21	77	5	1
23	.....dollars...	11,500	(⁵)	307,396	571,388	1,005,910	51,189,151	40,439	512,000
24	New drainage works constructed, enlarged, or installed.....projects reporting...	...	1	11	6	16	39	4	1
25	.....dollars...	...	(⁵)	92,423	32,558	664,238	42,250,732	14,237	75,000
26	Open ditches.....projects reporting...	...	1	11	6	16	31	4	1
27	.....length, miles...	...	(⁵)	126.7	36.6	1,452.3	711.3	7.5	33.0
28	Tile or covered drains.....projects reporting...	...	...	...	...	3	...	...	...
29	.....length, miles...	...	...	...	...	0.3	...	...	...
30	Levees or dikes.....projects reporting...	...	...	2	...	7	11	2	...
31	.....length, miles...	...	...	11.0	...	16.0	382.3	12.1	...
32	Pumps.....projects reporting...	...	...	3	...	6	32	...	...
33	.....number of pumps...	...	...	5	...	31	127	...	...
34	Other (see text).....projects reporting...	...	...	2	...	1	8	...	...
35	Cost of maintenance, operation, repair, and administration.....projects reporting...	1	1	11	3	16	74	2	1
36	.....dollars...	11,500	(⁵)	214,973	538,830	341,672	8,938,419	26,202	437,000

¹Land served by two or more projects counted only once.²Intercounty project with no benefited land in this county in 1960. See text.³Acres served by two projects are included for each project. See text.⁴Includes projects taken over by another project prior to 1960. See text.⁵Included in State total only.

DRAINAGE OF AGRICULTURAL LANDS

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data.]

	Item and Census year	Polk	Putnam	St. Johns	St. Lucie	Sarasota	Seminole	Sumter	Volusia	All other counties ¹
AREA										
1	Approximate land area.....acres 1960...	1,191,040	513,920	389,760	376,320	338,560	205,440	359,040	713,600	1,591,040
2	Land in farms.....acres 1950...	1,060,384	222,516	91,308	306,293	165,648	210,908	197,513	262,897	777,638
3	Drainage projects.....number 1960...	21	9	4	13	11	3	9	4	...
4	1950...	61	16	50	165	47	43	8	10	17
5	Total area in drainage projects ².....acres served 1960...	412,127	46,687	16,655	376,320	91,210	56,540	62,297	89,268	...
6	1950...	133,575	61,394	24,137	184,035	77,599	13,534	24,876	78,205	1,405
7	Area not used for agriculture or not drained.....acres served 1960...	245,480	...	...	34,800	7,500	46,300	...	26,880	...
8	Net area drained and used for agriculture.....acres served 1960...	166,647	46,687	16,655	341,520	83,710	10,240	62,297	62,388	...
9	Drainage established before 1950.....acres served 1960...	129,283	42,437	15,526	341,520	65,480	10,240	51,647	62,388	...
10	Area added, 1950-1959.....acres served 1960...	37,364	4,250	1,129	...	18,230	...	10,650	...	...
11	Area served by two or more projects.....acres served 1960...	3,360	...	...	79,009	2,690	...	...	...	...
PROJECTS, 1960, BY TYPE OF ORGANIZATION										
12	Drains owned by one landowner.....number of projects...	13	3	2	10	7	...	6	...	...
13	acres served ³ ...	78,408	3,040	1,129	33,310	20,920	...	14,425	...	...
14	Cooperative or mutual drains.....number of projects...	1	2	...	...	1	...	1	1	...
15	acres served ³ ...	8,960	3,775	...	...	29,000	...	3,000	538	...
16	Legally organized public drains.....number of projects...	7	4	2	3	3	3	2	3	...
17	acres served ³ ...	83,303	39,872	15,526	392,259	36,480	10,240	44,872	61,850	...
PROJECTS, 1960, BY YEAR STARTED										
18	1950-1959.....number of projects...	4	4	2	...	7	...	5	...	...
19	acres served ³ ...	32,364	4,890	1,129	...	20,920	...	7,620	...	...
20	Prior to 1950.....number of projects...	17	5	2	13	4	3	4	4	...
21	acres served ³ ...	138,307	41,797	15,526	425,569	65,480	10,240	54,677	62,388	...
DRAINAGE OPERATIONS, 1950-1959 ⁴										
22	Cost of drainage works and services.....projects reporting...	13	7	4	13	8	3	7	3	...
23	dollars...	524,894	94,517	193,319	2,486,566	730,608	55,750	43,539	55,990	...
24	New drainage works constructed, enlarged, or installed.....projects reporting...	6	5	3	10	7	...	7	...	...
25	dollars...	367,400	51,462	32,800	892,483	442,608	...	42,239	...	...
26	Open ditches.....projects reporting...	6	5	3	8	7	...	7	...	...
27	length, miles...	47.8	47.1	14.1	185.5	530.0	...	59.0	...	...
28	Tile or covered drains.....projects reporting...	...	...	...	...	...	...	...	...	...
29	length, miles...	...	...	...	...	...	...	...	...	...
30	Levees or dikes.....projects reporting...	3	...	...	1	...	...	...	...	...
31	length, miles...	13.5	...	...	39.0	...	...	...	...	...
32	Pumps.....projects reporting...	2	...	...	7	...	...	1	...	...
33	number of pumps...	4	...	...	25	...	...	1	...	...
34	Other (see text).....projects reporting...	...	1	...	2	...	...	...	...	...
35	Cost of maintenance, operation, repair, and administration.....projects reporting...	9	3	2	12	1	3	1	3	...
36	dollars...	197,494	43,055	160,519	1,594,083	288,000	55,750	1,300	55,990	...

¹Includes Alachua, Clay, Gadsden, and Hernando counties.²Land served by two or more projects counted only once.³Acres served by two projects are included for each project. See text.⁴Includes projects taken over by another project prior to 1960. See text.

State Table 1.—DRAINAGE PROJECTS—NUMBER, AREA, COST, AND WORKS, 1920 TO 1960

[See text for comparability of data.]

Item	1960 Census	1950 Census	1940 Census	1930 Census	1920 Census
AREA					
Approximate land area.....acres...	37,295,360	37,429,120	37,451,520	37,584,000	37,584,000
Land in farms.....acres...	19,657,615	25,751,055	23,683,631	22,078,630	25,441,061
Drainage projects.....number...	52	55	52	NA	NA
Total area in drainage projects.....acres served...	94,728	96,259	84,374	84,255	65,452
Area not used for agriculture or not drained.....acres served...	1,500	NA	NA	NA	NA
Net area drained and used for agriculture.....acres served...	93,228	NA	¹ 83,874	¹ 83,865	NA
Drainage established 10 years or more before Census date.....acres served...	67,982	NA	NA	NA	NA
Drainage established within 10 years of Census date.....acres served...	25,246	NA	NA	NA	NA
Area served by two or more projects.....acres served...	7,621	...	...	...	...
PROJECTS BY TYPE OF ORGANIZATION					
Drains owned by one landowner.....number of projects...	11	10	NA	NA	...
acres served...	12,847	9,569	3,700	9,000	...
Cooperative or mutual drains.....number of projects...	17	10	...	...	1
acres served...	24,325	17,205	...	...	10,000
Legally organized public drains.....number of projects...	24	35	NA	NA	NA
acres served...	64,682	69,485	80,674	75,255	55,452
PROJECTS BY YEAR STARTED					
Started 10 years or more before Census date.....number of projects...	38	39	NA	NA	NA
acres served...	67,321	72,771	84,374	74,097	10,000
Started within 10 years of Census date.....number of projects...	14	16	...	NA	NA
acres served...	34,533	23,688	...	10,156	55,452
OPERATIONS, 10-YEAR PERIOD PRECEDING CENSUS DATE					
Cost of drainage works and services.....projects reporting...	23	22	NA	NA	NA
dollars...	118,012	132,354	NA	NA	NA
New drainage works constructed, enlarged, or installed.....projects reporting...	21	² 22	NA	NA	NA
cost, dollars...	109,012	² 107,104	NA	NA	NA
Open ditches.....projects reporting...	21	22	NA	NA	NA
length, miles...	52.4	115	NA	NA	NA
Tile or covered drains.....projects reporting...	1	1	NA	NA	NA
length, miles...	7.8	2	NA	NA	NA
Levees or dikes.....projects reporting...	...	...	NA	NA	NA
length, miles...	...	...	NA	NA	NA
Pumps.....projects reporting...	...	NA	NA	NA	NA
number of pumps...	...	NA	NA	NA	NA
Other (see text).....projects reporting...	...	NA	NA	NA	NA
Cost of maintenance, operation, repair, and administration.....projects reporting...	3	NA	NA	NA	NA
dollars...	9,000	25,250	NA	NA	NA
STATUS ON CENSUS DATE					
Capital investment.....dollars...	NA	NA	2,064,840	1,918,525	794,585
Physical works:					
Open ditches.....length, miles...	NA	NA	550.3	496.9	276.8
Tile drains.....length, miles...	NA	NA	2.0	40.0	...
Levees and dikes.....length, miles...	NA	NA	5.0	...	...
Pumping units.....number of units...	NA	...	NA	4	...

NA Not available.

¹Not fully comparable. See text.²Cost of new works for lands not previously drained.

State Table 2.—DRAINAGE

	Size of project (Based on area of agricultural land in project)	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
			Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
					Projects reporting	Acres	Projects reporting	Acres
1	All projects.....	52	101,854	16,247	42	76,608	18	25,246
2	500 to 999 acres.....	21	14,172	3,115	18	12,117	5	2,055
3	1,000 to 1,999 acres.....	18	26,533	3,495	14	19,159	8	7,374
4	2,000 to 4,999 acres.....	10	28,613	2,016	7	18,106	4	10,507
5	5,000 to 9,999 acres.....	1	9,846	...	1	9,846	...	...
6	10,000 to 19,999 acres.....	2	22,690	7,621	2	17,330	1	5,310
7	20,000 to 49,999 acres.....	...	...	...	...	...	...	...
8	50,000 to 99,999 acres.....	...	...	...	...	...	...	...
9	100,000 or more acres.....	...	...	...	...	...	...	...

State Table 3.—DRAINAGE PROJECTS, 1960,

	Type of organization	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
			Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
					Projects reporting	Acres	Projects reporting	Acres
1	All projects.....	52	101,854	16,247	42	76,608	18	25,246
2	Drains owned by one landowner.....	11	12,847	1,980	7	7,877	4	4,970
3	Cooperative or mutual drains.....	17	24,325	6,646	13	14,412	10	9,913
4	Legally organized public drains.....	24	64,682	7,621	22	54,319	4	10,363

State Table 4.—DRAINAGE PROJECTS, 1960,

	Year of organization	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
			Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
					Projects reporting	Acres	Projects reporting	Acres
1	All projects.....	52	101,854	16,247	42	76,608	18	25,246
2	1950-1959.....	14	34,533	11,182	4	10,676	14	23,857
3	Prior to 1950.....	38	67,321	5,065	38	65,932	4	1,389

PROJECTS, 1960, BY SIZE

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959									
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting	
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number		
23	118,012	21	109,012	21	52.4	1	7.8	...	...	...	...	...
8	25,550	7	18,300	7	10.4	...	...	...	...	...	...	...
9	36,189	8	34,439	8	23.4	...	...	...	...	...	...	...
5	42,773	5	42,773	5	16.4	1	7.8	...	...	...	...	...
...	
1	13,500	1	13,500	1	2.2	...	...	...	...	...	...	...
...	
...	
...	
...	

BY TYPE OF ORGANIZATION

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959									
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting	
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number		
23	118,012	21	109,012	21	52.4	1	7.8	...	...	...	...	...
6	25,845	6	20,845	6	14.0	...	...	...	...	...	...	...
13	64,967	11	60,967	11	28.2	1	7.8	...	...	...	...	...
4	27,200	4	27,200	4	10.2	...	...	...	...	...	...	...

BY YEAR OF ORGANIZATION

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959								
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	
23	118,012	21	109,012	21	52.4	1	7.8	...	...	...	...	...
14	56,838	14	56,838	14	36.6	...	...	...	...	...	...	...
9	61,154	7	52,154	7	15.8	1	7.8	...	...	...	...	...

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data.]

Item and Census year		The State	Banks	Barrow	Bryan	Coweta	Evans	Franklin	Glynn
AREA									
1	Approximate land area.....acres 1960...	37,295,360	147,840	109,440	280,960	283,520	119,040	172,160	270,720
2	Land in farms.....acres 1959...	19,657,615	74,998	66,689	42,753	140,108	80,545	116,670	29,129
3	Drainage projects.....number 1960...	52	2	2	3	1	2	5	4
4	.....1950...	55	5	3	2	1	1	5	1
5	Total area in drainage projects ¹.....acres served 1960...	94,728	880	933	3,064	3,389	970	23,479	8,997
6	.....1950...	96,259	3,697	2,028	2,264	3,389	450	23,479	1,686
7	Area not used for agriculture or not drained.....acres served 1960...	1,500	...	...	...	...	...	...	...
8	Not area drained and used for agriculture.....acres served 1960...	93,228	880	933	3,064	3,389	970	23,479	8,997
9	Drainage established before 1950.....acres served 1960...	67,982	880	933	2,764	3,389	450	23,479	...
10	Area added, 1950-1959.....acres served 1960...	25,246	...	...	300	...	520	...	8,997
11	Area served by two or more projects.....acres served 1960...	7,621	...	...	...	...	...	...	...
PROJECTS, 1960, BY TYPE OF ORGANIZATION									
12	Drains owned by one landowner.....number of projects...	11	...	...	1	...	2	...	...
13	.....acres served ² ...	12,847	...	...	500	...	970	...	...
14	Cooperative or mutual drains.....number of projects...	17	...	1	...	...	...	...	2
15	.....acres served ² ...	24,325	...	305	...	...	...	...	4,244
16	Legally organized public drains.....number of projects...	24	2	*1	2	1	...	5	2
17	.....acres served ² ...	64,682	880	628	2,564	3,389	...	23,479	4,753
PROJECTS, 1960, BY YEAR STARTED									
18	1950-1959.....number of projects...	14	...	...	...	...	1	...	4
19	.....acres served ² ...	34,533	...	...	...	...	520	...	8,997
20	Prior to 1950.....number of projects...	38	2	2	3	1	1	5	...
21	.....acres served ² ...	67,321	880	933	3,064	3,389	450	23,479	...
DRAINAGE OPERATIONS, 1950-1959 ³									
22	Cost of drainage works and services.....projects reporting...	23	...	(⁴)	2	...	(⁴)	...	4
23	.....dollars...	118,012	...	(⁴)	22,500	...	(⁴)	...	11,713
24	New drainage works constructed, enlarged, or installed.....projects reporting...	21	...	...	2	...	(⁴)	...	4
25	.....dollars...	109,012	...	...	17,500	...	(⁴)	...	11,713
26	Open ditches.....projects reporting...	21	...	...	2	...	(⁴)	...	4
27	.....length, miles...	52.4	...	...	3.2	...	(⁴)	...	9.0
28	Tile or covered drains.....projects reporting...	1	...	...	...	...	...	...	...
29	.....length, miles...	7.8	...	...	...	...	...	...	...
30	Levees or dikes.....projects reporting...	...	...	...	...	...	...	...	...
31	.....length, miles...	...	...	...	...	...	...	...	...
32	Pumps.....projects reporting...	...	...	...	...	...	...	...	...
33	.....number of pumps...	...	...	...	...	...	...	...	...
34	Other (see text).....projects reporting...	...	...	...	...	...	...	...	...
35	Cost of maintenance, operation, repair, and administration.....projects reporting...	3	...	(⁴)	1	...	...	...	...
	.....dollars...	9,000	...	(⁴)	5,000	...	...	...	...

¹Land served by two or more projects counted only once.²Acres served by two projects are included for each project. See text.³Included projects taken over by another project prior to 1960. See text.⁴Included in State total only.

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

Item and Census year		Greene	Owinnett	Hall	Harris	Hart	Jackson	Liberty	Madison
AREA									
1	Approximate land area.....acres 1960...	227,920	279,040	250,880	297,600	164,480	215,680	326,400	179,840
2	Land in farms.....acres 1960...	129,951	118,695	113,056	116,359	103,563	133,709	88,424	110,742
3	Drainage projects..... number 1960...	3	2	1	1	2	1	2	1
4	..... 1950...	3	3	1	...	2	2	...	1
5	Total area in drainage projects ¹ acres served 1960...	2,898	2,541	700	2,000	3,509	400	3,300	639
6	..... 1950...	2,898	2,668	700	...	3,509	950	...	639
7	Area not used for agriculture or not drained..... acres served 1960...	...	...	...	...	...	...	...	...
8	Net area drained and used for agriculture..... acres served 1960...	2,898	2,541	700	2,000	3,509	400	3,300	639
9	Drainage established before 1950..... acres served 1960...	2,898	2,541	700	2,000	3,509	400	...	639
10	Area added, 1950-1959..... acres served 1960...	...	...	...	...	...	...	3,300	...
11	Area served by two or more projects..... acres served 1960...	...	...	...	...	...	...	...	...
PROJECTS, 1960, BY TYPE OF ORGANIZATION									
12	Drains owned by one landowner..... number of projects...	...	...	...	1	...	...	2	...
13	..... acres served ²...	...	...	...	2,000	...	...	3,300	...
14	Cooperative or mutual drains..... number of projects...	...	...	...	...	...	1	...	...
15	..... acres served ²...	...	...	...	...	...	400	...	...
16	Legally organized public drains..... number of projects...	3	2	1	...	2	...	...	1
17	..... acres served ² ...	2,898	2,541	700	...	3,509	...	...	639
PROJECTS, 1960, BY YEAR STARTED									
18	1950-1959..... number of projects...	...	...	...	...	...	...	2	...
19	..... acres served ²...	...	...	...	...	...	...	3,300	...
20	Prior to 1950..... number of projects...	3	2	1	1	2	1	...	1
21	..... acres served ² ...	2,898	2,541	700	2,000	3,509	400	...	639
DRAINAGE OPERATIONS, 1950-1959 ³									
22	Cost of drainage works and services.....projects reporting...	...	...	...	...	...	(⁴)	(⁴)	...
23	..... dollars...	...	...	...	...	...	(⁴)	(⁴)	...
24	New drainage works constructed, enlarged, or installed.....projects reporting...	...	...	...	...	...	...	(⁴)	...
25	..... dollars...	...	...	...	...	...	...	(⁴)	...
26	Open ditches.....projects reporting...	...	...	...	...	...	...	(⁴)	...
27	..... length, miles...	...	...	...	...	...	...	(⁴)	...
28	Tile or covered drains.....projects reporting...	...	...	...	...	...	...	...	...
29	..... length, miles...	...	...	...	...	...	...	...	...
30	Levees or dikes.....projects reporting...	...	...	...	...	...	...	...	...
31	..... length, miles...	...	...	...	...	...	...	...	...
32	Pumps.....projects reporting...	...	...	...	...	...	...	...	...
33	..... number of pumps...	...	...	...	...	...	...	...	...
34	Other (see text).....projects reporting...	...	...	...	...	...	...	...	...
35	Cost of maintenance, operation, repair, and administration.....projects reporting...	...	...	...	...	...	(⁴)	...	...
36	..... dollars...	...	...	...	...	...	(⁴)	...	...

¹Land served by two or more projects counted only once.

²Acres served by two projects are included for each project. See text.

³Includes projects taken over by another project prior to 1960. See text.

⁴Included in State total only.

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

Item and Census year		Miller	Morgan	Newton	Oglethorpe	Putnam	Rabun	Screven	Seminole
AREA									
1	Approximate land area.....acres 1960...	183,680	228,480	174,720	276,480	218,240	236,160	416,640	162,560
2	Land in farms.....acres 1959...	149,057	155,243	97,564	124,392	96,227	31,604	304,009	126,945
3	Drainage projects.....number 1960...	4	1	1	1	1	1	2	14
4	1950...	1	1	3	2	1	1	2	9
5	Total area in drainage projects ¹.....acres served 1960...	1,685	2,200	752	45	200	2,500	2,316	18,205
6	1950...	145	2,200	2,046	692	200	2,500	1,756	14,635
7	Area not used for agriculture or not drained.....acres served 1960...	...	...	500	...	...	...	...	1,000
8	Net area drained and used for agriculture.....acres served 1960...	1,685	2,200	252	45	200	2,500	2,316	17,205
9	Drainage established before 1950.....acres served 1960...	145	2,200	252	45	200	2,500	1,756	9,170
10	Area added, 1950-1959.....acres served 1960...	1,540	...	...	...	...	...	560	8,035
11	Area served by two or more projects.....acres served 1960...	...	...	...	...	...	...	...	7,621
PROJECTS, 1960, BY TYPE OF ORGANIZATION									
12	Drains owned by one landowner.....number of projects...	1	...	...	...	...	...	...	4
13	acres served ² ...	145	...	...	...	...	...	...	3,130
14	Cooperative or mutual drains.....number of projects...	3	...	...	...	...	1	2	9
15	acres served ² ...	1,540	...	...	...	...	2,500	2,316	10,276
16	Legally organized public drains.....number of projects...	...	1	1	1	1	...	...	1
17	acres served ²...	...	2,200	252	45	200	...	...	12,425
PROJECTS, 1960, BY YEAR STARTED									
18	1950-1959.....number of projects...	3	...	...	...	...	...	...	6
19	acres served ² ...	1,540	...	...	...	...	...	...	18,711
20	Prior to 1950.....number of projects...	1	1	1	1	1	1	2	8
21	acres served ² ...	145	2,200	252	45	200	2,500	2,316	7,120
DRAINAGE OPERATIONS, 1950-1959 ³									
22	Cost of drainage works and services.....projects reporting...	3	...	...	...	...	(⁴)	2	7
23	dollars...	5,620	...	...	...	...	(⁴)	3,500	28,625
24	New drainage works constructed, enlarged, or installed.....projects reporting...	3	...	...	...	...	(⁴)	2	6
25	dollars...	5,620	...	...	...	...	(⁴)	3,500	26,875
26	Open ditches.....projects reporting...	3	...	...	...	...	(⁴)	2	6
27	length, miles...	3.0	...	...	...	...	(⁴)	7.0	11.9
28	Tile or covered drains.....projects reporting...	...	...	...	...	...	(⁴)	...	...
29	length, miles...	...	...	...	...	...	(⁴)	...	...
30	Levees or dikes.....projects reporting...	...	...	...	...	...	...	...	...
31	length, miles...	...	...	...	...	...	...	...	...
32	Pumps.....projects reporting...	...	...	...	...	...	...	...	...
33	number of pumps...	...	...	...	...	...	...	...	...
34	Other (see text).....projects reporting...	...	...	...	...	...	...	...	...
35	Cost of maintenance, operation, repair, and administration.....projects reporting...	...	...	...	...	...	...	...	1
36	dollars...	...	...	...	...	...	...	...	1,750

¹Land served by two or more projects counted only once.²Acres served by two projects are included for each project. See text.³Includes projects taken over by another project prior to 1960. See text.⁴Included in State total only.

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

Item and Census year	Spalding	Stephens	Taitnall	Walton	Ware	Wayne	All other counties ¹
AREA							
1 Approximate land area..... acres 1960...	128,640	115,200	315,320	211,200	583,680	413,440	1,965,440
2 Land in farms..... acres 1959...	72,907	42,323	201,055	139,695	134,969	119,955	1,060,917
3 Drainage projects..... number 1960...	1	2	1	1	2	1	...
4 1950...	1	2	1	3	1	1	17
5 Total area in drainage projects ² acres served 1960...	650	2,280	2,252	650	2,744	550	...
6 1950...	650	2,280	2,252	3,111	750	550	14,135
7 Area not used for agriculture or not drained..... acres served 1960...	...	...	...	...	...	...	...
8 Net area drained and used for agriculture..... acres served 1960...	650	2,280	2,252	650	2,744	550	...
9 Drainage established before 1950..... acres served 1960...	650	2,280	2,252	650	750	550	...
10 Area added, 1950-1959..... acres served 1960...	...	...	...	...	1,994	...	...
11 Area served by two or more projects..... acres served 1960...	...	...	...	...	...	...	...
PROJECTS, 1960, BY TYPE OF ORGANIZATION							
12 Drains owned by one landowner..... number of projects...	...	...	1	...	...	1	...
13 acres served ³...	...	...	2,252	...	...	550	...
14 Cooperative or mutual drains..... number of projects...	...	...	...	...	2	...	...
15 acres served ³...	...	...	...	...	2,744	...	...
16 Legally organized public drains..... number of projects...	1	2	...	1	...	...	...
17 acres served ³ ...	650	2,280	...	650	...	...	...
PROJECTS, 1960, BY YEAR STARTED							
18 1950-1959..... number of projects...	...	...	...	...	1	...	...
19 acres served ³...	...	...	...	...	1,465	...	...
20 Prior to 1950..... number of projects...	1	2	1	1	1	1	...
21 acres served ³ ...	650	2,280	2,252	650	1,279	550	...
DRAINAGE OPERATIONS, 1950-1959 ⁴							
22 Cost of drainage works and services..... projects reporting...	...	...	...	...	2	(⁵)	...
23 dollars...	...	...	...	...	13,294	(⁵)	...
24 New drainage works constructed, enlarged, or installed..... projects reporting...	...	...	...	...	2	(⁵)	...
25 dollars...	...	...	...	...	13,294	(⁵)	...
26 Open ditches..... projects reporting...	...	...	...	...	2	(⁵)	...
27 length, miles...	...	...	...	...	5.5	(⁵)	...
28 Tile or covered drains..... projects reporting...	...	...	...	...	...	...	...
29 length, miles...	...	...	...	...	...	...	...
30 Levees or dikes..... projects reporting...	...	...	...	...	...	...	...
31 length, miles...	...	...	...	...	...	...	...
32 Pumps..... projects reporting...	...	...	...	...	...	...	...
33 number of pumps...	...	...	...	...	...	...	...
34 Other (see text)..... projects reporting...	...	...	...	...	...	...	...
35 Cost of maintenance, operation, repair, and administration..... projects reporting...	...	...	...	...	...	...	...
36 dollars...	...	...	...	...	...	...	...

¹Includes Bartow, Cherokee, Clarke, Clayton, Cobb, Fayette, Henry, Oconee, Paulding, and Thomas counties.²Land served by two or more projects counted only once.³Acres served by two projects are included for each project. See text.⁴Includes projects taken over by another project prior to 1960. See text.⁵Included in State total only.

State Table 1.—DRAINAGE PROJECTS—NUMBER, AREA, COST, AND WORKS, 1920 TO 1960

[See text for comparability of data.]

Item	1960 Census	1950 Census	1940 Census	1930 Census	1920 Census
AREA					
Approximate land area.....acres...	52,933,120	52,972,160	52,997,120	53,346,560	53,346,560
Land in farms.....acres...	15,232,401	13,224,192	10,297,745	9,346,908	8,375,873
Drainage projects.....number...	33	379	50	NA	NA
Total area in drainage projects.....acres served...	130,982	436,171	659,136	375,464	64,642
Area not used for agriculture or not drained.....acres served...	20,000	NA	NA	NA	NA
Not area drained and used for agriculture.....acres served...	110,982	NA	¹ 650,135	¹ 362,303	NA
Drainage established 10 years or more before Census date.....acres served...	110,118	NA	NA	NA	NA
Drainage established within 10 years of Census date.....acres served...	864	NA	NA	NA	NA
Area served by two or more projects.....acres served...	...	...	15,396	...	...
PROJECTS BY TYPE OF ORGANIZATION					
Drains owned by one landowner.....number of projects...	5	² 4	NA	NA	NA
.....acres served...	4,074	² 3,210	² 2,492	² 1,850	² 560
Cooperative or mutual drains.....number of projects...	3	² 3	...	...	...
.....acres served...	4,362	² 5,195	...	...	...
Legally organized public drains.....number of projects...	25	² 37	NA	NA	NA
.....acres served...	102,546	² 135,172	² 123,753	² 118,645	² 16,082
PROJECTS BY YEAR STARTED					
Started 10 years or more before Census date.....number of projects...	32	² 32	NA	NA	...
.....acres served...	110,278	² 129,331	630,471	305,029	...
Started within 10 years of Census date.....number of projects...	1	² 12	NA	NA	NA
.....acres served...	704	² 14,246	28,665	70,435	64,642
OPERATIONS, 10-YEAR PERIOD PRECEDING CENSUS DATE					
Cost of drainage works and services.....projects reporting...	29	² 44	NA	NA	NA
.....dollars...	2,011,573	906,297	NA	NA	NA
New drainage works constructed, enlarged, or installed.....projects reporting...	16	² 12	NA	NA	NA
.....cost, dollars...	200,332	² 132,962	NA	NA	NA
Open ditches.....projects reporting...	11	19	NA	NA	NA
.....length, miles...	38.6	59	NA	NA	NA
Tile or covered drains.....projects reporting...	1	2	NA	NA	NA
.....length, miles...	2.5	2	NA	NA	NA
Levees or dikes.....projects reporting...	5	4	NA	NA	NA
.....length, miles...	8.6	8	NA	NA	NA
Pumps.....projects reporting...	11	NA	NA	NA	NA
.....number of pumps...	18	NA	NA	NA	NA
Other (see text).....projects reporting...	1	NA	NA	NA	NA
Cost of maintenance, operation, repair, and administration.....projects reporting...	29	NA	NA	NA	NA
.....dollars...	1,811,241	773,335	NA	NA	NA
STATUS ON CENSUS DATE					
Capital investment.....dollars...	NA	NA	7,567,032	5,112,444	1,668,569
Physical works:					
Open ditches.....length, miles...	NA	NA	968.1	651.2	274.5
Tile drains.....length, miles...	NA	NA	174.6	19.9	1.8
Levees and dikes.....length, miles...	NA	NA	95.4	74.8	9.5
Pumping units.....number of units...	NA	² 54	73	37	6

NA Not available.

¹Not fully comparable. See text.²1950 figures exclude 335 projects and 292,594 acres in "irrigation enterprises"; 1940 figures exclude 532,891 acres in "irrigation enterprises"; 1930 figures exclude 254,969 acres in "irrigation enterprises"; 1920 figures exclude 48,000 acres in "irrigation enterprises."³Cost of new works for lands not previously drained.

DRAINAGE OF AGRICULTURAL LANDS

State Table 2.—DRAINAGE

Size of project (Based on area of agricultural land in project)	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
		Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
				Projects reporting	Acres	Projects reporting	Acres
1 All projects.....	33	110,982	...	32	110,118	2	864
2 500 to 999 acres.....	11	8,075	...	10	7,371	1	704
3 1,000 to 1,999 acres.....	9	12,214	...	9	12,054	1	160
4 2,000 to 4,999 acres.....	9	30,656	...	9	30,656	...	...
5 5,000 to 9,999 acres.....	2	11,988	...	2	11,988	...	...
6 10,000 to 19,999 acres.....	...	...	...	...	...	...	...
7 20,000 to 49,999 acres.....	2	48,049	...	2	48,049	...	...
8 50,000 to 99,999 acres.....	...	...	...	...	...	...	...
9 100,000 or more acres.....	...	...	...	...	...	...	...

State Table 3.—DRAINAGE PROJECTS, 1960,

Type of organization	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
		Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
				Projects reporting	Acres	Projects reporting	Acres
1 All projects.....	33	110,982	...	32	110,118	2	864
2 Drains owned by one landowner.....	5	4,074	...	4	3,210	2	864
3 Cooperative or mutual drains.....	3	4,362	...	3	4,362	...	...
4 Legally organized public drains.....	25	102,546	...	25	102,546	...	...

State Table 4.—DRAINAGE PROJECTS, 1960,

Year of organization	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
		Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
				Projects reporting	Acres	Projects reporting	Acres
1 All projects.....	33	110,982	...	32	110,118	2	864
2 1950-1959.....	1	704	...	...	...	1	704
3 Prior to 1950.....	32	110,278	...	32	110,118	1	160

PROJECTS, 1960, BY SIZE

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959									
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting	
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number		
29	2,011,573	16	200,332	11	38.6	1	2.5	5	8.6	11	18	1	1
9	228,435	5	64,795	3	13.7	...	...	3	5.5	4	6	...	2
8	530,608	7	57,078	5	13.6	...	...	2	3.1	5	7	...	3
8	825,923	3	54,709	2	4.3	...	...	...	...	2	5	...	4
2	185,621	...	...	...	...	...	...	...	...	...	...	...	...
...
2	240,986	1	23,750	1	7.0	1	2.5	...	...	...	...	...	...
...
...

BY TYPE OF ORGANIZATION

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959									
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting	
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number		
29	2,011,573	16	200,332	11	38.6	1	2.5	5	8.6	11	18	1	1
5	127,117	4	49,000	4	16.3	...	...	3	3.1	2	3	...	2
...	...	...	...	...	...	...	...	...	...	...	...	...	3
24	1,884,456	12	151,332	7	22.3	1	2.5	2	5.5	9	15	1	4

BY YEAR OF ORGANIZATION

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959									
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting	
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number		
29	2,011,573	16	200,332	11	38.6	1	2.5	5	8.6	11	18	1	1
1	34,300	1	28,000	1	8.7	...	...	1	0.5	1	2	...	2
28	1,977,273	15	172,332	10	29.9	1	2.5	4	8.1	10	16	1	3

DRAINAGE OF AGRICULTURAL LANDS

County Table 1.-DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

Item and Census year		The State	Ada	Benewah	Bonner	Boundary	Canyon
AREA							
1	Approximate land area.....acres 1960...	52,933,120	666,880	506,240	1,107,840	816,000	371,200
2	Land in farms.....acres 1959...	15,232,401	314,976	202,523	240,592	115,206	352,382
3	Drainage projects.....number 1960...	33	2	4	1	16	2
4	1950...	379	45	4	2	16	58
5	Total area in drainage projects ¹.....acres served 1960...	130,982	21,661	3,223	1,474	33,010	13,380
6	1950...	436,171	74,821	3,223	1,574	32,920	149,956
7	Area not used for agriculture or not drained.....acres served 1960...	20,000	...	...	...	...	...
8	Net area drained and used for agriculture.....acres served 1960...	110,982	21,661	3,223	1,474	33,010	13,380
9	Drainage established before 1950.....acres served 1960...	110,118	21,661	3,223	1,474	32,850	13,380
10	Area added, 1950-1959.....acres served 1960...	864	...	...	...	160	...
11	Area served by two or more projects.....acres served 1960...	...	...	...	...	...	...
PROJECTS, 1960, BY TYPE OF ORGANIZATION							
12	Drains owned by one landowner.....number of projects...	5	...	2	...	1	...
13	acres served ² ...	4,074	...	1,810	...	1,060	...
14	Cooperative or mutual drains.....number of projects...	3	...	...	...	...	...
15	acres served ² ...	4,362	...	...	...	...	...
16	Legally organized public drains.....number of projects...	25	2	2	1	15	2
17	acres served ² ...	102,546	21,661	1,413	1,474	31,950	13,380
PROJECTS, 1960, BY YEAR STARTED							
18	1950-1959.....number of projects...	1	...	...	...	...	...
19	acres served ² ...	704	...	...	...	...	...
20	Prior to 1950.....number of projects...	32	2	4	1	16	2
21	acres served ² ...	110,278	21,661	3,223	1,474	33,010	13,380
DRAINAGE OPERATIONS, 1950-1959 ³							
22	Cost of drainage work and services.....projects reporting...	29	2	4	1	16	2
23	dollars...	2,011,573	155,517	85,807	1,800	1,550,122	86,219
24	New drainage works constructed, enlarged, or installed.....projects reporting...	16	...	3	...	9	...
25	dollars...	200,332	...	35,000	...	104,873	...
26	Open ditches.....projects reporting...	11	...	2	...	5	...
27	length, miles...	38.6	...	8.0	...	12.6	...
28	Tile or covered drains.....projects reporting...	1	...	...	...	...	...
29	length, miles...	2.5	...	...	...	...	...
30	Levees or dikes.....projects reporting...	5	...	1	...	2	...
31	length, miles...	8.6	...	3.0	...	3.1	...
32	Pumps.....projects reporting...	11	...	2	...	8	...
33	number of pumps...	18	...	3	...	13	...
34	Other (see text).....projects reporting...	1	...	...	...	1	...
35	Cost of maintenance, operation, repair, and administration.....projects reporting...	29	2	4	1	16	2
36	dollars...	1,811,241	155,517	50,807	1,800	1,445,249	86,219

¹Land served by two or more projects counted only once.²Acres served by two projects are included for each project. See text.³Includes projects taken over by another project prior to 1960. See text.

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data.]

Item and Census year	Franklin	Gem	Kootenai	Madison	Owyhee	Payette	All other counties ¹
AREA							
1 Approximate land area.....acres 1960...	426,880	235,200	803,840	2302,720	4,888,960	257,920	24,728,960
2 Land in farms.....acres 1950...	275,447	236,029	268,643	2357,361	690,055	194,450	8,555,728
3 Drainage projects.....number 1960...	3	1	2	1	1	1	...
4 1950...	33	29	1	3	10	47	148
5 Total area in drainage projects ².....acres served 1960...	2,782	6,800	1,204	3,000	40,000	4,448	...
6 1950...	11,906	25,714	500	3,150	19,514	43,883	69,010
7 Area not used for agriculture or not drained.....acres served 1960...	...	...	...	...	20,000	...	...
8 Net area drained and used for agriculture.....acres served 1960...	2,782	6,800	1,204	3,000	20,000	4,448	...
9 Drainage established before 1950.....acres served 1960...	2,782	6,800	500	3,000	20,000	4,448	...
10 Area added, 1950-1959.....acres served 1960...	...	...	704	...	...	...	...
11 Area served by two or more projects.....acres served 1960...	...	...	...	...	...	...	...
PROJECTS, 1960, BY TYPE OF ORGANIZATION							
12 Drains owned by one landowner.....number of projects...	...	...	2	...	...	...	...
13 acres served ³...	...	...	1,204	...	...	...	...
14 Cooperative or mutual drains.....number of projects...	2	...	...	1	...	...	...
15 acres served ³ ...	1,362	...	...	3,000	...	...	...
16 Legally organized public drains.....number of projects...	1	1	...	...	1	1	...
17 acres served ³ ...	1,420	6,800	...	...	20,000	4,448	...
PROJECTS, 1950, BY YEAR STARTED							
18 1950-1959.....number of projects...	...	...	1	...	...	...	...
19 acres served ⁴...	...	...	704	...	...	...	...
20 Prior to 1950.....number of projects...	3	1	1	1	1	1	...
21 acres served ⁴ ...	2,782	6,800	500	3,000	20,000	4,448	...
DRAINAGE OPERATIONS, 1950-1959 ⁵							
22 Cost of drainage works and services.....projects reporting...	...	1	(6)	...	1	1	...
23 dollars...	...	18,200	(6)	...	32,750	34,858	...
24 New drainage works constructed, enlarged, or installed.....projects reporting...	...	...	(6)	...	1	1	...
25 dollars...	...	...	(6)	...	23,750	2,709	...
26 Open ditches.....projects reporting...	...	...	(6)	...	1	1	...
27 length, miles...	...	...	(6)	...	7.0	0.3	...
28 Tile or covered drains.....projects reporting...	...	...	...	...	1	...	...
29 length, miles...	...	...	...	...	2.5	...	...
30 Levees or dikes.....projects reporting...	...	...	(6)	...	...	...	...
31 length, miles...	...	...	(6)	...	...	...	...
32 Pumps.....projects reporting...	...	...	(6)	...	...	...	...
33 number of pumps...	...	...	(6)	...	...	...	...
34 Other (see text).....projects reporting...	...	...	...	...	...	...	...
35 Cost of maintenance, operation, repair, and administration.....projects reporting...	...	1	(6)	...	1	1	...
36 dollars...	...	18,200	(6)	...	9,000	32,149	...

¹Includes Adams, Bannock, Bear Lake, Bingham, Elaine, Boise, Bonneville, Camas, Caribou, Cassia, Elmore, Fremont, Gooding, Jefferson, Jerome, Lemhi, Minidoka, Oneida, Teton, Twin Falls, Valley, and Washington counties.

²The excess of farm acreage over approximate land area is due to the fact that the entire acreage of a farm is tabulated as in the county in which the headquarters is located, even though a part of the farm may be situated in an adjoining county.

³Land served by two or more projects counted only once.

⁴Acres served by two projects are included for each project. See text.

⁵Includes projects taken over by another project prior to 1960. See text.

⁶Included in State total only.

State Table 1.—DRAINAGE PROJECTS—NUMBER, AREA, COST, AND WORKS, 1920 TO 1960

[See text for comparability of data]

Item	1960 Census	1950 Census	1940 Census	1930 Census	1920 Census
AREA					
Approximate land area.....acres...	35,795,200	35,798,400	35,806,080	35,867,520	35,867,520
Land in farms.....acres...	30,327,261	30,978,495	31,032,572	30,695,339	31,974,775
Drainage projects.....number...	1,496	1,433	1,695	NA	NA
Total area in drainage projects.....acres served...	5,616,121	5,370,825	5,091,364	5,032,682	3,909,049
Area not used for agriculture or not drained.....acres served...	52,695	NA	NA	NA	NA
Net area drained and used for agriculture.....acres served...	5,563,426	NA	14,911,263	15,005,376	NA
Drainage established 10 years or more before Census date.....acres served...	5,428,733	NA	NA	NA	NA
Drainage established within 10 years of Census date.....acres served...	134,693	NA	NA	NA	NA
Area served by two or more projects.....acres served...	293,808	299,963	805,760	709,234	181,550
PROJECTS BY TYPE OF ORGANIZATION					
Drains owned by one landowner.....number of projects...	39	16	NA	NA	NA
.....acres served...	78,673	27,449	30,822	15,722	17,542
Cooperative or mutual drains.....number of projects...	154	189	...	...	...
.....acres served...	228,762	302,121	...	...	...
Legally organized public drains.....number of projects...	1,303	1,228	NA	NA	NA
.....acres served...	5,575,635	5,041,255	5,060,542	5,016,960	3,891,507
PROJECTS BY YEAR STARTED					
Started 10 years or more before Census date.....number of projects...	1,395	1,335	NA	NA	NA
.....acres served...	5,655,113	5,131,906	4,890,012	4,447,288	2,988,033
Started within 10 years of Census date.....number of projects...	101	98	NA	NA	NA
.....acres served...	227,957	238,919	201,352	585,394	2909,993
OPERATIONS, 10-YEAR PERIOD PRECEDING CENSUS DATE					
Cost of drainage works and services.....projects reporting...	1,027	892	NA	NA	NA
.....dollars...	28,691,965	16,860,472	NA	NA	NA
New drainage works constructed, enlarged, or installed.....projects reporting...	228	3103	NA	NA	NA
.....cost, dollars...	11,114,587	31,217,157	NA	NA	NA
Open ditches.....projects reporting...	143	96	NA	NA	NA
.....length, miles...	374.5	273	NA	NA	NA
Tile or covered drains.....projects reporting...	83	34	NA	NA	NA
.....length, miles...	124.9	67	NA	NA	NA
Levees or dikes.....projects reporting...	24	5	NA	NA	NA
.....length, miles...	115.2	19	NA	NA	NA
Pumps.....projects reporting...	30	NA	NA	NA	NA
.....number of pumps...	45	NA	NA	NA	NA
Other (see text).....projects reporting...	50	NA	NA	NA	NA
Cost of maintenance, operation, repair, and administration.....projects reporting...	936	NA	NA	NA	NA
.....dollars...	17,577,378	15,643,315	NA	NA	NA
STATUS ON CENSUS DATE					
Capital investment.....dollars...	NA	NA	72,567,174	74,565,923	43,595,069
Physical works:					
Open ditches.....length, miles...	NA	NA	6,862.2	5,996.4	4,754.5
Tile drains.....length, miles...	NA	NA	4,246.6	3,825.6	3,507.1
Levees and dikes.....length, miles...	NA	NA	1,157.8	1,108.4	650.2
Pumping units.....number of units...	NA	115	125	120	NA

NA Not available.

¹Not fully comparable. See text.²1920 figures exclude 11,023 acres for which date of organization was not reported.³Cost of new works for lands not previously drained.

State Table 2.—DRAINAGE

	Size of project (Based on area of agricultural land in project)	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
			Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
					Projects reporting	Acres	Projects reporting	Acres
1	All projects.....	1,496	5,883,070	613,452	1,446	5,748,217	74	134,853
2	500 to 999 acres.....	313	228,468	25,748	292	212,393	29	16,075
3	1,000 to 1,999 acres.....	438	633,572	38,076	417	601,899	27	31,673
4	2,000 to 4,999 acres.....	435	1,380,782	96,127	429	1,351,060	13	29,722
5	5,000 to 9,999 acres.....	182	1,240,267	124,647	180	1,224,247	3	16,020
6	10,000 to 19,999 acres.....	98	1,317,391	109,355	98	1,317,391	...	...
7	20,000 to 49,999 acres.....	27	822,295	106,487	27	818,019	1	4,276
8	50,000 to 99,999 acres.....	2	151,034	46,940	2	113,947	1	37,087
9	100,000 or more acres.....	1	109,261	66,072	1	109,261	...	...

State Table 3.—DRAINAGE PROJECTS, 1960,

	Type of organization	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
			Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
					Projects reporting	Acres	Projects reporting	Acres
1	All projects.....	1,496	5,883,070	613,452	1,446	5,748,217	74	134,853
2	Drains owned by one landowner.....	39	78,673	16,261	30	68,975	12	9,698
3	Cooperative or mutual drains.....	154	228,762	30,845	129	188,964	34	39,798
4	Legally organized public drains.....	1,303	5,575,635	566,346	1,287	5,490,278	28	85,357

State Table 4.—DRAINAGE PROJECTS, 1960,

	Year of organization	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
			Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
					Projects reporting	Acres	Projects reporting	Acres
1	All projects.....	1,496	5,883,070	613,452	1,446	5,748,217	74	134,853
2	1950-1959.....	101	227,997	96,634	51	102,593	67	125,364
3	Prior to 1950.....	1,395	5,655,113	516,818	1,395	5,645,624	7	9,489

PROJECTS, 1960, BY SIZE

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959								
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	
1,027	28,691,965	228	11,114,587	143	374.5	83	124.9	24	115.2	30	45	50
173	694,824	65	431,465	52	110.0	17	18.7	3	8.7	4	4	7
262	1,647,913	58	599,351	34	65.6	31	60.8	3	3.0	5	6	12
319	8,195,487	57	4,652,527	31	101.0	22	33.5	14	58.3	12	20	14
151	5,711,441	22	1,731,117	13	27.3	5	4.9	1	10.0	5	5	8
92	8,343,081	19	2,513,314	11	37.6	4	5.6	2	33.0	4	10	6
27	2,557,031	6	203,773	1	7.0	4	1.4	1	2.2	...	...	3
2	1,309,567	1	983,040	1	26.0	...	...	...	...	...	...	8
1	232,621	...	...	...	...	...	...	...	...	...	...	9

BY TYPE OF ORGANIZATION

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959								
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	
1,027	28,691,965	228	11,114,857	143	374.5	83	124.9	24	115.2	30	45	50
33	379,868	27	195,738	21	72.4	8	20.3	5	3.6	3	6	4
83	457,558	59	386,907	44	84.6	14	16.9	3	15.2	7	7	8
911	27,854,539	142	10,531,942	78	217.5	61	87.7	16	96.4	20	32	38

BY YEAR OF ORGANIZATION

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959								
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	
1,027	28,691,965	228	11,114,587	143	374.5	83	124.9	24	115.2	30	45	50
101	2,338,093	98	2,215,879	81	213.6	25	66.9	9	18.9	12	14	13
926	26,353,872	130	8,898,708	62	160.9	58	58.0	15	96.3	18	31	37

DRAINAGE OF AGRICULTURAL LANDS

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

	Item and Census year	The State	Adams	Alexander	Boone	Brown	Bureau	Calhoun	Carroll	Cass
	AREA									
1	Approximate land area..... acres 1960...	35,795,200	554,240	143,360	181,120	196,480	555,520	165,760	299,520	236,800
2	Land in farms..... acres 1959...	30,327,261	476,178	83,046	172,534	168,139	525,217	130,704	258,471	216,097
3	Drainage projects..... number 1960...	1,496	5	9	4	2	20	5	3	17
4	1950...	1,433	5	6	4	1	16	2	3	16
5	Total area in drainage projects ¹ acres served 1960...	5,616,121	40,717	29,129	12,830	5,931	65,365	7,818	4,630	47,732
6	1950...	5,370,825	42,887	29,084	13,150	4,320	59,893	7,824	4,630	46,333
7	Area not used for agriculture or not drained..... acres served 1960...	52,695	...	...	...	...	...	...	...	...
8	Net area drained and used for agriculture..... acres served 1960...	5,563,426	40,717	29,129	12,830	5,931	65,365	7,818	4,630	47,732
9	Drainage established before 1950..... acres served 1960...	5,428,733	40,717	27,849	12,830	5,931	65,365	7,818	4,630	46,576
10	Area added, 1950-1959..... acres served 1960...	134,693	...	1,280	...	...	...	...	...	1,156
11	Area served by two or more projects..... acres served 1960...	293,808	2,170	2,300	...	...	1,040	5,208	500	3,460
	PROJECTS, 1960, BY TYPE OF ORGANIZATION									
12	Drains owned by one landowner..... number of projects...	39	...	1	...	...	...	...	...	...
13	acres served ² ...	78,673	...	1,880	...	...	...	...	...	...
14	Cooperative or mutual drains..... number of projects...	154	...	2	3	...	2	3	...	...
15	acres served ² ...	228,762	...	1,780	11,370	...	3,037	2,600	...	...
16	Legally organized public drains..... number of projects...	1,303	5	6	1	2	18	2	3	17
17	acres served ² ...	5,575,635	42,887	27,849	1,460	5,931	63,368	10,426	5,130	51,192
	PROJECTS, 1960, BY YEAR STARTED									
18	1950-1959..... number of projects...	101	...	3	...	...	...	3	...	1
19	acres served ² ...	227,997	...	3,660	...	...	...	2,600	...	1,156
20	Prior to 1950..... number of projects...	1,395	5	6	4	2	20	2	3	16
21	acres served ² ...	5,655,113	42,887	27,849	12,830	5,931	66,405	10,426	5,130	50,036
	DRAINAGE OPERATIONS, 1950-1959 ³									
22	Cost of drainage works and services..... projects reporting...	1,027	5	9	...	1	16	5	3	16
23	dollars...	28,691,965	1,126,152	2,315,326	...	65,777	349,168	68,607	80,104	479,042
24	New drainage works constructed, enlarged, or installed..... projects reporting...	228	2	6	...	...	4	3	1	6
25	dollars...	11,114,587	334,897	2,195,157	...	...	113,500	20,400	5,000	91,842
26	Open ditches..... projects reporting...	143	1	3	...	...	2	3	...	5
27	length, miles...	374.5	5.5	8.0	...	...	0.7	6.8	...	10.5
28	Tile or covered drains..... projects reporting...	83	1	...	...	...	...	...	...	1
29	length, miles...	124.9	1.1	...	...	...	...	...	...	0.3
30	Levees or dikes..... projects reporting...	24	...	3	...	...	2	...	...	...
31	length, miles...	115.2	...	17.0	...	...	23.5	...	...	...
32	Pumps..... projects reporting...	30	1	...	...	...	...	2	1	1
33	number of pumps...	45	3	...	...	...	...	2	1	1
34	Other (see text)..... projects reporting...	50	1	...	...	...	...	...	...	2
35	Cost of maintenance, operation, repair, and administration..... projects reporting...	936	5	6	...	1	16	3	3	15
36	dollars...	17,577,378	791,255	120,169	...	65,777	235,668	48,207	75,104	387,800

¹Land served by two or more projects counted only once.²Acres served by two projects are included for each project. See text.³Includes projects taken over by another project prior to 1960. See text.

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1960 data]

Item and Census year		Champaign	Christian	Clark	Clay	Clinton	Coles	Cook	Crawford	Cumberland
AREA										
1	Approximate land area.....acres 1960...	640,000	453,760	323,200	296,960	318,720	324,480	610,560	282,880	221,440
2	Land in farms.....acres 1959...	600,519	415,508	289,755	244,150	262,731	291,014	130,937	229,101	191,587
3	Drainage projects.....number 1960...	97	81	6	1	4	60	19	6	9
4	1950...	96	75	6	1	4	59	20	6	7
5	Total area in drainage projects ¹.....acres served 1960...	502,042	138,137	6,528	6,330	8,855	106,636	43,863	19,362	9,739
6	1950...	501,844	130,934	20,680	6,330	8,855	101,968	50,283	19,962	7,845
7	Area not used for agriculture or not drained.....acres served 1960...	8,150	...	...	...	...	...	3,570	640	...
8	Net area drained and used for agriculture.....acres served 1960...	493,892	138,137	6,528	6,330	8,855	106,636	40,293	18,722	9,739
9	Drainage established before 1950.....acres served 1960...	492,792	138,137	5,848	6,330	8,855	103,767	40,293	18,722	8,239
10	Area added, 1950-1959.....acres served 1960...	1,100	...	680	...	...	2,869	...	...	1,500
11	Area served by two or more projects.....acres served 1960...	1,940	...	...	...	...	4,092	...	...	...
PROJECTS, 1960, BY TYPE OF ORGANIZATION										
12	Drains owned by one landowner.....number of projects...	1	1	2	...	...	1	1	...	...
13	acres served ² ...	1,100	1,770	1,844	...	...	1,326	127	...	...
14	Cooperative or mutual drains.....number of projects...	7	...	1	...	...	1	...	...	1
15	acres served ² ...	11,113	...	1,190	...	...	1,294	...	...	1,500
16	Legally organized public drains.....number of projects...	89	80	3	1	4	58	18	6	8
17	acres served ² ...	483,619	136,367	3,494	6,330	8,855	108,108	40,166	18,722	8,239
PROJECTS, 1960, BY YEAR STARTED										
18	1950-1959.....number of projects...	2	1	1	...	...	1	...	...	1
19	acres served ² ...	2,090	700	680	...	...	2,869	...	...	1,500
20	Prior to 1950.....number of projects...	95	80	5	1	4	59	19	6	8
21	acres served ² ...	498,742	137,437	5,848	6,330	8,855	107,899	40,293	18,722	8,239
DRAINAGE OPERATIONS, 1950-1959 ³										
22	Cost of drainage works and services.....projects reporting...	79	47	2	...	4	29	15	5	6
23	dollars...	788,386	123,426	5,028	...	51,421	156,281	119,270	27,467	22,163
24	New drainage works constructed, enlarged, or installed.....projects reporting...	5	1	1	...	...	2	1	1	1
25	dollars...	39,424	15,000	5,000	...	...	33,000	5,000	3,000	2,400
26	Open ditches.....projects reporting...	2	1	1	...	...	...	...	...	1
27	length, miles...	2.7	0.8	2.0	...	...	...	...	...	2.0
28	Tile or covered drains.....projects reporting...	3	1	...	...	...	2	1	...	...
29	length, miles...	3.8	2.5	...	...	...	6.0	2.0	...	...
30	Levees or dikes.....projects reporting...	...	...	...	...	...	1	...	...	...
31	length, miles...	...	...	...	...	...	0.1	...	...	...
32	Pumps.....projects reporting...	...	...	...	...	...	1	...	...	...
33	number of pumps...	...	...	...	...	...	1	...	...	...
34	Other (see text).....projects reporting...	2	...	...	...	...	1	...	1	...
35	Cost of maintenance, operation, repair, and administration.....projects reporting...	76	46	1	...	4	28	15	5	5
36	dollars...	748,962	108,426	28	...	51,421	123,281	114,270	24,467	19,763

¹Land served by two or more projects counted only once.²Acres served by two projects are included for each project. See text.³Includes projects taken over by another project prior to 1960. See text.

County Table 1. —DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

Item and Census year	De Kalb	De Witt	Douglas	Du Page	Edgar	Edwards	Effingham	Fayette	Ford
AREA									
1 Approximate land area.....acres 1960...	1407,040	255,360	268,800	211,840	401,920	144,000	308,480	459,520	312,320
2 Land in farms.....acres 1959...	1408,946	243,138	249,278	102,334	370,333	133,103	265,435	383,971	299,226
3 Drainage projects..... number 1960...	25	31	68	14	51	5	6	16	35
4" 1950...	25	31	74	15	51	4	5	15	34
5 Total area in drainage projects ¹ acres served 1960...	74,111	96,451	174,772	22,854	142,248	6,830	5,143	47,124	166,429
6" 1950...	74,252	82,392	173,235	19,598	151,310	6,370	4,118	46,447	167,253
7 Area not used for agriculture or not drained..... acres served 1960...	...	...	...	2,480	...	...	...	...	800
8 Net area drained and used for agriculture..... acres served 1960...	74,111	96,451	174,772	20,374	142,248	6,830	5,143	47,124	165,629
9 Drainage established before 1950..... acres served 1960...	74,080	85,411	174,772	20,374	142,248	6,370	4,118	46,447	164,989
10 Area added, 1950-1959..... acres served 1960...	31	11,040	...	...	...	460	1,025	677	640
11 Area served by two or more projects..... acres served 1960...	1,000	2,480	7,800	...	5,940	680	...	...	36,240
PROJECTS, 1960, BY TYPE OF ORGANIZATION									
12 Drains owned by one landowner..... number of projects...	...	...	...	3	...	...	...	1	...
13" acres served...	...	...	...	3,598	...	...	...	1,105	...
14 Cooperative or mutual drains..... number of projects...	1	5	...	4	3	...	3	3	1
15" acres served...	1,200	9,090	...	8,993	7,425	...	1,932	7,280	715
16 Legally organized public drains..... number of projects...	24	26	68	7	48	5	3	12	34
17" acres served...	73,911	89,841	182,572	7,783	140,763	7,510	3,211	38,739	209,814
PROJECTS, 1960, BY YEAR STARTED									
18 1950-1959..... number of projects...	...	6	...	...	...	1	1	1	1
19" acres served...	...	11,040	...	...	...	800	1,025	677	33,200
20 Prior to 1950..... number of projects...	25	25	68	14	51	4	5	15	34
21" acres served...	75,111	87,891	182,572	20,374	148,188	6,710	4,118	46,447	177,329
DRAINAGE OPERATIONS, 1950-1959 ²									
22 Cost of drainage works and services.....projects reporting...	9	21	36	4	25	5	5	10	25
23" dollars...	95,699	306,779	211,350	26,298	145,658	52,941	19,233	193,496	744,685
24 New drainage works constructed, enlarged, or installed.....projects reporting...	1	8	...	1	2	1	2	2	2
25" dollars...	106	148,776	...	200	3,388	5,000	9,785	52,000	453,242
26 Open ditches.....projects reporting...	...	6	...	...	1	1	2	...	1
27" length, miles...	...	4.6	...	...	0.1	1.8	5.9	...	12.0
28 Tile or covered drains.....projects reporting...	1	5	...	1	2	...	1	...	...
29" length, miles...	0.1	11.7	...	0.1	0.4	...	0.1	...	...
30 Levees or dikes.....projects reporting...	...	...	...	...	...	...	...	2	...
31" length, miles...	...	...	...	...	...	...	...	5.5	...
32 Pumps.....projects reporting...	...	...	...	...	...	...	...	...	...
33" number of pumps...	...	...	...	...	...	...	...	...	...
34 Other (see text).....projects reporting...	...	3	...	...	...	...	...	...	1
35 Cost of maintenance, operation, repair, and administration.....projects reporting...	9	16	36	3	24	4	4	9	24
36" dollars...	95,593	158,003	211,350	26,098	142,270	47,941	9,448	141,496	291,443

¹The excess of farm acreage over approximate land area is due to the fact that the entire acreage of a farm is tabulated as in the county in which the headquarters is located, even though a part of the farm may be situated in an adjoining county.

²Land served by two or more projects counted only once.

³Acres served by two projects are included for each project. See text.

⁴Includes projects taken over by another project prior to 1960. See text.

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

	Item and Census year	Fulton	Callatin	Greene	Grundy	Hamilton	Hancock	Henderson	Henry	Iroquois
	AREA									
1	Approximate land area.....acres 1960...	559,360	209,920	347,520	276,480	278,400	510,080	243,840	528,640	718,080
2	Land in farms.....acres 1959...	496,427	151,129	329,345	241,446	204,431	462,656	211,514	505,432	674,810
3	Drainage projects..... number 1960...	13	19	10	7	10	1	3	15	84
4	1950...	12	13	9	4	6	1	3	16	84
5	Total area in drainage projects ¹ acres served 1960...	31,477	56,456	54,467	23,396	58,306	15,300	15,547	108,995	410,990
6	1950...	29,778	52,746	53,467	10,482	58,175	15,300	19,057	107,178	405,437
7	Area not used for agriculture or not drained..... acres served 1960...	...	...	...	...	...	...	...	...	2,080
8	Net area drained and used for agriculture..... acres served 1960...	31,477	56,456	54,467	23,396	58,306	15,300	15,547	108,995	408,910
9	Drainage established before 1950..... acres served 1960...	29,778	53,616	53,467	19,929	58,175	15,300	15,547	108,995	401,227
10	Area added, 1950-1959..... acres served 1960...	1,699	2,840	1,000	3,467	131	...	...	...	7,683
11	Area served by two or more projects..... acres served 1960...	...	2,888	60	...	3,650	...	...	4,580	11,700
	PROJECTS, 1960, BY TYPE OF ORGANIZATION									
12	Drains owned by one landowner..... number of projects...	...	...	1	...	4	...	...	...	...
13	acres served ²...	...	...	1,585	...	3,781	...	...	...	...
14	Cooperative or mutual drains..... number of projects...	2	6	1	...	...	...	...	...	4
15	acres served ² ...	3,165	5,698	60	...	...	...	...	...	4,092
16	Legally organized public drains..... number of projects...	11	13	8	7	6	1	3	15	80
17	acres served ² ...	28,312	53,646	52,882	23,396	58,175	15,300	15,547	113,575	416,518
	PROJECTS, 1960, BY YEAR STARTED									
18	1950-1959..... number of projects...	2	6	1	1	4	...	...	...	2
19	acres served ² ...	3,165	5,728	60	3,367	3,781	...	...	...	11,960
20	Prior to 1950..... number of projects...	11	13	9	6	6	1	3	15	82
21	acres served ² ...	28,312	53,616	54,467	20,029	58,175	15,300	15,547	113,575	408,650
	DRAINAGE OPERATIONS, 1950-1959 ³									
22	Cost of drainage works and services..... projects reporting...	12	15	10	5	7	1	3	16	73
23	dollars...	686,766	90,891	669,851	62,067	158,701	312,000	521,214	697,213	1,005,353
24	New drainage works constructed, enlarged, or installed..... projects reporting...	7	6	4	2	4	1	1	2	14
25	dollars...	128,630	31,109	43,000	25,200	34,310	15,000	20,000	23,120	135,050
26	Open ditches..... projects reporting...	1	6	4	1	4	1	1	...	7
27	length, miles...	0.5	14.2	14.2	5.5	14.9	3.0	3.0	...	15.5
28	Tile or covered drains..... projects reporting...	...	...	...	1	1	...	...	...	10
29	length, miles...	...	...	...	2.1	14.5	...	...	...	6.6
30	Levees or dikes..... projects reporting...	2	...	...	...	...	...	1	...	...
31	length, miles...	10.2	...	...	...	...	...	3.0	...	...
32	Pumps..... projects reporting...	4	...	1	...	...	1	...	2	...
33	number of pumps...	4	...	1	...	...	2	...	3	...
34	Other (see text)..... projects reporting...	5	...	1	...	...	...	1	...	...
35	Cost of maintenance, operation, repair, and administration..... projects reporting...	12	10	9	5	4	1	3	16	72
36	dollars...	558,136	59,782	626,851	36,867	124,391	297,000	501,214	674,093	870,303

¹Land served by two or more projects counted only once.²Acres served by two projects are included for each project. See text.³Includes projects taken over by another project prior to 1960. See text.

County Table 1.—DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

Item and Census year	Jackson	Jasper	Jersey	Johnson	Kane	Kankakee	Kendall	Lake	La Salle
AREA									
1 Approximate land area.....acres 1960...	385,920	316,800	239,360	220,800	330,240	435,200	204,800	292,480	737,920
2 Land in farms.....acres 1959...	253,987	278,521	202,722	121,861	275,207	378,632	192,965	139,127	666,951
3 Drainage projects..... number 1960...	5	12	3	4	25	44	5	18	38
4 1950...	3	11	3	3	27	44	5	20	35
5 Total area in drainage projects ¹ acres served 1960...	41,340	19,210	10,717	14,092	63,275	144,198	12,830	33,951	85,759
6 1950...	26,670	18,700	10,717	12,198	64,885	133,298	12,650	31,895	81,025
7 Area not used for agriculture or not drained..... acres served 1960...	...	...	...	...	...	1,320	...	...	...
8 Net area drained and used for agriculture..... acres served 1960...	41,340	19,210	10,717	14,092	63,275	142,878	12,830	33,951	85,759
9 Drainage established before 1950..... acres served 1960...	41,340	18,700	10,717	13,592	63,275	131,968	12,830	33,951	81,980
10 Area added, 1950-1959..... acres served 1960...	...	510	...	500	...	10,910	...	...	3,779
11 Area served by two or more projects..... acres served 1960...	17,624	...	...	...	...	...	...	...	760
PROJECTS, 1960, BY TYPE OF ORGANIZATION									
12 Drains owned by one landowner..... number of projects...	...	...	...	1	5	...	...	...	...
13 acres served ²...	...	...	...	500	4,209	...	...	...	...
14 Cooperative or mutual drains..... number of projects...	...	6	...	...	...	2	...	...	8
15 acres served ²...	...	6,073	...	...	...	4,300	...	...	11,632
16 Legally organized public drains..... number of projects...	5	6	3	3	20	42	5	18	30
17 acres served ² ...	58,964	13,137	10,717	13,592	59,066	138,578	12,830	33,951	74,887
PROJECTS, 1960, BY YEAR STARTED									
18 1950-1959..... number of projects...	...	1	...	1	...	3	...	...	2
19 acres served ²...	...	510	...	500	...	11,880	...	...	3,314
20 Prior to 1950..... number of projects...	5	11	3	3	25	41	5	18	36
21 acres served ² ...	58,964	18,700	10,717	13,592	63,275	130,998	12,830	33,951	83,205
DRAINAGE OPERATIONS, 1950-1959 ³									
22 Cost of drainage works and services.....projects reporting...	5	11	3	3	10	34	5	9	13
23 dollars...	328,862	60,182	202,900	17,992	121,105	386,519	70,533	70,182	99,356
24 New drainage works constructed, enlarged, or installed.....projects reporting...	1	3	1	1	3	10	...	3	4
25 dollars...	3,000	7,692	16,000	5,000	42,060	176,500	...	24,450	51,911
26 Open ditches.....projects reporting...	1	3	1	1	1	8	...	1	3
27 length, miles...	3.0	8.9	8.0	6.6	7.5	26.5	...	1.0	10.8
28 Tile or covered drains.....projects reporting...	...	...	...	...	2	3	...	1	3
29 length, miles...	...	...	...	...	1.4	9.0	...	3.0	5.5
30 Levees or dikes.....projects reporting...	...	...	...	1	...	...	...	...	...
31 length, miles...	...	...	...	1.0	...	...	...	...	...
32 Pumps.....projects reporting...	...	...	...	...	...	...	...	...	...
33 number of pumps...	...	...	...	...	...	...	...	...	...
34 Other (see text).....projects reporting...	...	...	...	...	...	...	...	1	...
35 Cost of maintenance, operation, repair, and administration.....projects reporting...	5	10	3	2	8	32	5	8	10
36 dollars...	325,862	52,490	186,900	12,992	79,045	210,019	70,533	45,732	47,445

¹Land served by two or more projects counted only once.²Acres served by two projects are included for each project. See text.³Includes projects taken over by another project prior to 1960. See text.

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

	Item and Census year	Lawrence	Lee	Livingston	Logan	McHenry	McLean	Macoupin	Macoupin	Madison
AREA										
1	Approximate land area.....acres 1960...	239,360	466,560	667,520	398,080	391,040	750,720	368,640	558,080	467,840
2	Land in farms.....acres 1959...	172,299	436,999	637,716	384,481	316,645	722,554	329,714	496,470	354,024
3	Drainage projects..... number 1960...	14	15	52	17	16	39	70	11	7
4	1950...	14	14	52	14	16	36	75	8	7
5	Total area in drainage projects ¹ acres served 1960...	76,996	89,165	157,979	103,572	55,669	173,643	115,977	12,293	34,267
6	1950...	82,324	89,130	118,638	49,022	55,135	165,512	105,618	9,593	26,567
7	Area not used for agriculture or not drained acres served 1960...	3,000	...	...	...	...	...	500	...	13,630
8	Net area drained and used for agriculture acres served 1960...	73,996	89,165	157,979	103,572	55,669	173,643	115,477	12,293	20,637
9	Drainage established before 1950..... acres served 1960...	73,996	89,165	121,532	103,572	55,669	169,248	112,312	10,893	20,637
10	Area added, 1950-1959 acres served 1960...	...	...	36,447	...	...	4,395	3,165	1,400	...
11	Area served by two or more projects..... acres served 1960...	25,889	698	3,636	...	...	...	320	77	...
PROJECTS, 1960, BY TYPE OF ORGANIZATION										
12	Drains owned by one landowner number of projects...	...	...	1	1	...	...	...	...	...
13	acres served ²...	...	...	2,241	30,388	...	...	...	...	...
14	Cooperative or mutual drains.....number of projects...	...	...	10	3	...	5	9	4	...
15	acres served ²...	...	...	10,900	6,450	...	12,018	8,135	3,560	...
16	Legally organized public drains..... number of projects...	14	15	41	13	16	34	61	7	7
17	acres served ² ...	101,705	89,863	148,474	66,734	55,669	161,625	107,662	8,810	20,637
PROJECTS, 1960, BY YEAR STARTED										
18	1950-1959 number of projects...	...	...	1	...	...	3	4	1	...
19	acres served ²...	...	...	41,120	...	...	4,395	3,485	1,400	...
20	Prior to 1950.....number of projects...	14	15	51	17	16	36	66	10	7
21	acres served ² ...	101,705	89,863	120,495	103,572	55,669	169,248	112,312	10,970	20,637
DRAINAGE OPERATIONS, 1950-1959 ³										
22	Cost of drainage works and services .....projects reporting...	13	13	29	14	5	26	45	8	7
23	dollars...	413,612	392,920	702,959	160,571	33,883	435,225	231,008	32,975	3,088,730
24	New drainage works constructed, enlarged, or installed.....projects reporting...	3	...	4	4	...	9	11	...	2
25	dollars...	154,325	...	637,973	10,450	...	131,370	83,571	...	2,780,000
26	Open ditches.....projects reporting...	1	...	3	3	...	6	6	...	1
27	length, miles...	0.3	...	22.6	5.1	...	6.1	15.4	...	7.0
28	Tile or covered drains.....projects reporting...	...	...	2	1	...	4	10	...	1
29	length, miles...	...	...	2.2	1.2	...	2.8	14.5	...	1.0
30	Levees or dikes.....projects reporting...	2	...	...	...	...	...	...	...	1
31	length, miles...	2.8	...	...	...	...	...	...	...	21.0
32	Pumps .....projects reporting...	...	...	...	...	...	...	...	...	2
33	number of pumps...	...	...	...	...	...	...	...	...	8
34	Other (see text).....projects reporting...	...	...	1	...	...	8	6	...	1
35	Cost of maintenance, operation, repair, and administration.....projects reporting...	13	13	28	12	5	25	42	8	7
36	dollars...	259,287	392,920	64,986	150,121	33,883	303,855	147,437	32,975	308,730

¹Land served by two or more projects counted only once.²Acres served by two projects are included for each project. See text.³Includes projects taken over by another project prior to 1960. See text.

DRAINAGE OF AGRICULTURAL LANDS

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

Item and Census year		Marion	Marshall	Mason	Massac	Menard	Mercer	Monroe	Montgomery	Morgan
AREA										
1	Approximate land area.....acres 1960...	371,200	252,800	346,240	157,440	199,680	355,840	243,200	451,840	361,600
2	Land in farms.....acres 1959...	292,232	228,175	302,272	107,360	188,659	336,234	216,705	409,682	342,085
3	Drainage projects.....number 1960...	3	4	19	1	3	2	10	60	9
4	1950...	...	4	18	1	3	2	9	55	7
5	Total area in drainage projects ¹.....acres served 1960...	1,900	6,565	110,749	36,847	11,264	20,963	60,009	73,919	15,677
6	1950...	...	6,565	110,749	38,847	11,264	20,963	56,331	69,936	15,599
7	Area not used for agriculture or not drained.....acres served 1960...	...	...	...	2,048	...	...	...	...	...
8	Net area drained and used for agriculture.....acres served 1960...	1,900	6,565	110,749	34,799	11,264	20,963	60,009	73,919	15,677
9	Drainage established before 1950.....acres served 1960...	...	6,565	110,749	34,799	11,264	20,963	57,209	73,919	15,117
10	Area added, 1950-1959.....acres served 1960...	1,900	...	...	...	...	...	2,800	...	560
11	Area served by two or more projects.....acres served 1960...	...	...	5,988	...	2,644	...	17,257	5,930	3,100
PROJECTS, 1960, BY TYPE OF ORGANIZATION										
12	Drains owned by one landowner.....number of projects...	...	...	...	...	...	...	...	...	1
13	acres served ²...	...	...	...	...	...	...	...	...	560
14	Cooperative or mutual drains.....number of projects...	3	...	...	...	...	...	...	6	...
15	acres served ² ...	1,900	...	...	...	...	...	...	5,690	...
16	Legally organized public drains.....number of projects...	...	4	19	1	3	2	10	54	8
17	acres served ²...	...	6,565	116,737	34,799	13,908	20,963	77,266	74,159	18,217
PROJECTS, 1960, BY YEAR STARTED										
18	1950-1959.....number of projects...	3	...	...	...	...	...	1	...	2
19	acres served ² ...	1,900	...	...	...	...	...	2,800	...	1,820
20	Prior to 1950.....number of projects...	...	4	19	1	3	2	9	60	7
21	acres served ²...	...	6,565	116,737	34,799	13,908	20,963	74,466	79,849	16,957
DRAINAGE OPERATIONS, 1950-1959 ³										
22	Cost of drainage works and services.....projects reporting...	3	2	15	1	3	2	10	48	7
23	dollars...	2,599	6,234	349,586	224,208	33,818	581,787	476,726	97,909	141,622
24	New drainage works constructed, enlarged, or installed.....projects reporting...	3	...	...	...	1	1	2	...	1
25	dollars...	2,599	...	...	...	1,400	70,000	104,200	...	5,000
26	Open ditches.....projects reporting...	3	...	...	...	...	...	2	...	1
27	length, miles...	5.2	...	...	...	...	...	3.0	...	3.0
28	Tile or covered drains.....projects reporting...	...	...	...	...	...	...	2	...	...
29	length, miles...	...	...	...	...	...	...	0.2	...	...
30	Levees or dikes.....projects reporting...	...	...	...	...	...	...	1	...	...
31	length, miles...	...	...	...	...	...	...	4.0	...	...
32	Pumps.....projects reporting...	...	...	...	...	1	...	1	...	...
33	number of pumps...	...	...	...	...	1	...	1	...	...
34	Other (see text).....projects reporting...	...	...	...	...	...	1	...	...	...
35	Cost of maintenance, operation, repair, and administration.....projects reporting...	...	2	15	1	3	2	10	48	7
36	dollars...	...	6,234	349,586	224,208	32,418	511,787	372,526	97,909	136,622

¹Land served by two or more projects counted only once.²Acres served by two projects are included for each project. See text.³Includes projects taken over by another project prior to 1960. See text.

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

Item and Census year		Moultrie	Ogle	Peoria	Piatt	Pike	Pope	Pulaski	Putnam	Randolph
AREA										
1	Approximate land area.....acres 1960...	220,800	484,480	399,360	279,680	530,560	243,840	130,560	106,240	380,160
2	Land in farms.....acres 1959...	205,096	460,208	322,019	275,720	469,337	109,935	92,307	92,318	316,417
3	Drainage projects.....number 1960...	40	4	4	52	21	2	6	1	5
4	1950...	38	4	4	51	12	3	5	1	5
5	Total area in drainage projects ¹.....acres served 1960...	74,576	13,360	7,994	185,883	108,673	14,119	45,643	2,556	33,780
6	1950...	71,353	13,127	9,354	180,806	107,229	15,579	45,523	2,525	33,780
7	Area not used for agriculture or not drained.....acres served 1960...	...	...	...	...	...	...	1,200	...	...
8	Net area drained and used for agriculture.....acres served 1960...	74,576	13,360	7,994	185,883	108,673	14,119	44,443	2,556	33,780
9	Drainage established before 1950.....acres served 1960...	74,576	13,360	7,994	183,999	108,673	14,119	44,323	2,556	33,780
10	Area added, 1950-1959.....acres served 1960...	...	...	...	1,884	...	...	120	...	...
11	Area served by two or more projects.....acres served 1960...	713	...	...	4,435	58,694	...	480	...	2,525
PROJECTS, 1960, BY TYPE OF ORGANIZATION										
12	Drains owned by one landowner.....number of projects...	...	...	...	1	3	...	...	...	...
13	acres served ²...	...	...	...	1,000	6,081	...	...	...	...
14	Cooperative or mutual drains.....number of projects...	3	...	...	6	4	...	1	...	...
15	acres served ² ...	3,530	...	...	7,670	10,192	...	600	...	...
16	Legally organized public drains.....number of projects...	37	4	4	45	14	2	5	1	5
17	acres served ² ...	71,759	13,360	7,994	181,648	161,940	14,119	44,323	2,556	36,305
PROJECTS, 1960, BY YEAR STARTED										
18	1950-1959.....number of projects...	1	...	...	2	8	...	1	...	...
19	acres served ² ...	713	...	...	1,884	22,004	...	600	...	...
20	Prior to 1950.....number of projects...	39	4	4	50	13	2	5	1	5
21	acres served ² ...	74,576	13,360	7,994	188,434	156,209	14,119	44,323	2,556	36,305
DRAINAGE OPERATIONS, 1950-1959 ³										
22	Cost of drainage works and services.....projects reporting...	35	2	3	44	21	2	5	1	5
23	dollars...	217,712	34,326	167,150	555,754	905,766	16,115	132,726	180,648	110,271
24	New drainage works constructed, enlarged, or installed.....projects reporting...	5	...	...	9	9	...	1	1	...
25	dollars...	45,742	...	...	36,774	281,923	...	3,180	65,000	...
26	Open ditches.....project reporting...	3	...	...	5	3	...	1	...	...
27	length, miles...	1.7	...	...	8.7	9.0	...	1.4	...	...
28	Tile or covered drains.....project reporting...	3	...	...	7	2	...	...	...	...
29	length, miles...	0.7	...	...	5.0	0.2	...	...	...	...
30	Levees or dikes.....project reporting...	...	...	...	...	4	...	...	...	...
31	length, miles...	...	...	...	...	4.5	...	...	...	...
32	Pumps.....project reporting...	...	...	...	...	8	...	...	1	...
33	number of pumps...	...	...	...	...	11	...	...	1	...
34	Other (see text).....project reporting...	...	...	...	2	6	...	...	1	...
35	Cost of maintenance, operation, repair, and administration.....projects reporting...	34	2	3	42	19	2	4	1	5
36	dollars...	171,970	34,326	167,150	518,980	623,783	16,115	129,546	115,648	110,271

¹Land served by two or more projects counted only once.²Acres served by two projects are included for each project. See text.³Includes projects taken over by another project prior to 1960. See text.

DRAINAGE OF AGRICULTURAL LANDS

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

Item and Census year		Richland	Rock Island	St. Clair	Saline	Sangamon	Schuyler	Scott	Shelby	Stark	Tazewell
AREA											
1	Approximate land area.....acres 1960...	232,960	268,800	428,800	245,760	563,200	277,760	160,640	494,080	186,240	417,920
2	Land in farms.....acres 1950...	208,682	220,435	316,109	149,486	499,137	249,143	155,885	438,702	179,257	359,893
3	Drainage projects.....number 1960...	2	9	6	18	15	4	7	41	1	11
4	1950...	2	9	6	16	11	4	5	38	1	11
5	Total area in drainage projects ¹.....acres served 1960...	4,020	25,714	18,579	75,400	29,903	14,788	29,687	64,288	3,598	38,034
6	1950...	4,020	26,539	16,749	59,600	21,343	15,803	29,687	63,259	3,598	36,166
7	Area not used for agriculture or not drained.....acres served 1960...	...	1,100	...	2,860	2,997	...	...	...	...	...
8	Net area drained and used for agriculture.....acres served 1960...	4,020	24,614	18,579	72,540	26,946	14,788	29,687	64,288	3,598	38,034
9	Drainage established before 1950.....acres served 1960...	4,020	24,614	18,579	72,540	26,306	14,788	29,687	63,168	3,598	35,999
10	Area added, 1950-1959.....acres served 1960...	...	...	...	...	640	...	...	1,120	...	2,035
11	Area served by two or more projects.....acres served 1960...	...	...	...	1,000	400	...	700	1,959	...	...
PROJECTS, 1960, BY TYPE OF ORGANIZATION											
12	Drains owned by one landowner.....number of projects...	...	...	...	...	3	...	...	...	...	1
13	acres served ²...	...	...	...	...	5,280	...	...	...	...	561
14	Cooperative or mutual drains.....number of projects...	...	1	...	1	2	...	1	9	...	1
15	acres served ²...	...	3,950	...	800	1,475	...	660	7,454	...	2,035
16	Legally organized public drains.....number of projects...	2	8	6	17	10	4	6	32	1	9
17	acres served ² ...	4,020	20,664	18,579	72,740	20,591	14,788	29,727	58,793	3,598	35,438
PROJECTS, 1960, BY YEAR STARTED											
18	1950-1959.....number of projects...	...	...	...	...	1	...	2	2	...	1
19	acres served ²...	...	...	...	...	640	...	700	1,120	...	2,035
20	Prior to 1950.....number of projects...	2	9	6	18	14	4	5	39	1	10
21	acres served ² ...	4,020	24,614	18,579	73,540	26,706	14,788	29,687	65,127	3,598	35,999
DRAINAGE OPERATIONS, 1950-1959 ³											
22	Cost of drainage works and services.....projects reporting...	...	7	5	7	6	3	7	27	1	9
23	dollars...	...	332,209	149,740	164,467	28,488	426,293	491,892	63,646	1,800	703,458
24	New drainage works constructed, enlarged, or installed.....projects reporting...	...	1	1	...	1	2	3	2	...	3
25	dollars...	...	3,000	112,000	...	2,000	104,000	78,710	15,320	...	67,100
26	Open ditches.....projects reporting...	...	1	1	...	1	1	3	1	...	2
27	length, miles...	...	0.5	3.6	...	0.6	2.0	1.8	1.3	...	2.4
28	Tile or covered drains.....projects reporting...	...	...	1	...	...	1	...	1	...	1
29	length, miles...	...	...	0.2	...	...	2.0	...	3.4	...	0.4
30	Levees or dikes.....projects reporting...	...	...	...	...	...	1	...	...	...	1
31	length, miles...	...	...	...	...	...	4.0	...	...	...	1.5
32	Pumps.....projects reporting...	...	...	...	...	...	2	1	...	...	...
33	number of pumps...	...	...	...	...	...	2	2	...	...	...
34	Other (see text).....projects reporting...	...	...	...	...	...	...	1	1	...	1
35	Cost of maintenance, operation, repair, and administration.....projects reporting...	...	7	5	7	5	3	6	25	1	8
36	dollars...	...	329,209	37,740	164,467	26,488	322,293	413,182	48,326	1,800	636,358

¹Land served by two or more projects counted only once.²Acres served by two projects are included for each project. See text.³Includes projects taken over by another project prior to 1960. See text.

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

	Item and Census year	Union	Vernilion	Wabsah	Warren	Wayne	White	Whiteside	Will	Winnnebago	Woodford
AREA											
1	Approximate land area.....acres 1960...	264,960	574,720	141,440	346,880	457,600	320,640	441,600	540,800	332,800	343,680
2	Land in farms.....acres 1959...	160,131	501,713	123,536	331,181	337,690	284,074	413,238	406,823	268,793	308,880
3	Drainage projects.....number 1960...	21	80	16	2	15	28	35	39	3	10
4	.....1950...	5	87	18	...	11	25	32	35	3	5
5	Total area in drainage projects ¹.....acres served 1960...	39,214	209,779	30,391	1,980	72,685	60,368	149,373	71,218	3,272	37,880
6	.....1950...	36,524	219,324	30,391	...	77,225	58,323	148,246	61,162	3,272	23,070
7	Area not used for agriculture or not drained.....acres served 1960...	...	1,400	...	...	...	...	3,680	1,280	...	...
8	Net area drained and used for agriculture.....acres served 1960...	39,214	208,379	30,391	1,980	72,685	60,368	145,693	69,938	3,272	37,880
9	Drainage established before 1950.....acres served 1960...	36,524	206,689	30,391	...	69,205	59,668	145,693	67,738	3,272	27,370
10	Area added, 1950-1959.....acres served 1960...	2,690	1,690	...	1,980	3,480	700	...	2,200	...	10,510
11	Area served by two or more projects.....acres served 1960...	8,529	9,110	...	...	3,560	5,870	14,102	...	...	...
PROJECTS, 1960, BY TYPE OF ORGANIZATION											
12	Drains owned by one landowner.....number of projects...	7	...	...	...	2	1	...	1	...	...
13	.....acres served ² ...	4,357	...	...	...	2,480	700	...	2,200	...	...
14	Cooperative or mutual drains.....number of projects...	8	3	...	2	2	2	...	1	1	4
15	.....acres served ² ...	6,862	8,800	...	1,980	3,240	1,260	...	500	652	12,910
16	Legally organized public drains.....number of projects...	6	77	16	...	11	25	35	37	2	6
17	.....acres served ² ...	36,524	213,199	30,391	...	70,525	64,278	159,795	67,238	2,620	24,970
PROJECTS, 1960, BY YEAR STARTED											
18	1950-1959.....number of projects...	15	2	...	2	4	2	...	1	...	4
19	.....acres served ³ ...	11,219	2,250	...	1,980	5,720	1,200	...	2,200	...	10,510
20	Prior to 1950.....number of projects...	6	78	16	...	11	26	35	38	3	6
21	.....acres served ³ ...	36,524	219,749	30,391	...	70,525	65,038	159,795	67,738	3,272	27,370
DRAINAGE OPERATIONS, 1950-1959 ⁴											
22	Cost of drainage works and services.....projects reporting...	21	54	14	2	9	15	27	23	1	6
23	.....dollars...	1,833,092	372,611	91,688	32,413	226,621	103,188	550,264	159,266	159	98,386
24	New drainage works constructed, enlarged, or installed.....projects reporting...	17	8	...	2	4	2	3	6	...	4
25	.....dollars...	1,720,071	54,502	...	32,413	23,440	6,468	21,000	64,400	...	79,047
26	Open ditches.....projects reporting...	15	5	...	1	4	2	1	2	...	1
27	.....length, miles...	21.5	11.7	...	0.3	18.5	9.3	0.5	1.5	...	4.0
28	Tile or covered drains.....projects reporting...	...	3	...	2	...	...	...	4	...	3
29	.....length, miles...	...	1.3	...	3.8	...	...	...	6.0	...	9.8
30	Levees or dikes.....projects reporting...	2	...	...	...	...	...	1	1	...	...
31	.....length, miles...	13.0	...	...	...	...	...	4.0	0.1	...	...
32	Pumps.....projects reporting...	...	...	...	...	...	...	1	...	...	...
33	.....number of pumps...	...	...	...	...	...	...	1	...	...	...
34	Other (see text).....projects reporting...	2	2	...	...	...	...	...	1	...	...
35	Cost of maintenance, operation, repair, and administration.....projects reporting...	6	50	14	...	5	13	27	22	1	2
36	.....dollars...	113,021	318,109	91,688	...	203,181	96,720	529,264	94,866	159	19,339

¹Land served by two or more projects counted only once.²Acres served by two projects are included for each project. See text.³Includes projects taken over by another project prior to 1960. See text.

State Table 1.—DRAINAGE PROJECTS—NUMBER, AREA, COST, AND WORKS, 1920 TO 1960

[See text for comparability of data.]

Item	1960 Census	1950 Census	1940 Census	1930 Census	1920 Census
AREA					
Approximate land area.....acres...	23,158,400	23,171,200	23,171,200	23,068,800	23,068,800
Land in farms.....acres.....	18,613,046	19,658,677	19,800,778	19,688,675	21,063,332
Drainage projects.....number.....	292	79	¹ 8,893	NA	NA
Total area in drainage projects.....acres served...	11,120,936	11,017,709	10,121,952	10,214,014	9,087,183
Area not used for agriculture or not drained.....acres served...	67,490	NA	NA	NA	NA
Net area drained and used for agriculture.....acres served...	11,053,446	NA	² 9,703,805	² 10,150,221	NA
Drainage established 10 years or more before Census date.....acres served...	10,980,064	NA	NA	NA	NA
Drainage established within 10 years of Census date.....acres served...	73,382	NA	NA	NA	NA
Area served by two or more projects.....acres served...	210,322	NA	9,850,573	12,835,773	5,928,038
PROJECTS BY TYPE OF ORGANIZATION					
Drains owned by one landowner.....number of projects...	18	(³)	NA	NA	NA
.....acres served...	22,765	(³)	1,000	15,726	⁴ 5,623
Cooperative or mutual drains.....number of projects...	188	(³)	...	...	...
.....acres served...	237,047	(³)	...	...	...
Legally organized public drains.....number of projects...	86	³ 79	NA	NA	NA
.....acres served...	11,008,036	³ 11,017,709	10,120,952	10,198,288	⁴ 9,049,193
PROJECTS BY YEAR STARTED					
Started 10 years or more before Census date.....number of projects...	138	NA	NA	NA	NA
.....acres served...	11,070,844	NA	9,242,358	9,555,509	⁴ 6,861,184
Started within 10 years of Census date.....number of projects...	154	NA	NA	NA	NA
.....acres served...	197,004	NA	879,594	658,505	⁴ 2,220,090
OPERATIONS, 10-YEAR PERIOD PRECEDING CENSUS DATE					
Cost of drainage works and services.....projects reporting...	254	75	NA	NA	NA
.....dollars...	13,598,832	8,206,459	NA	NA	NA
New drainage works constructed, enlarged, or installed.....projects reporting...	158	⁵ 22	NA	NA	NA
.....cost, dollars...	2,528,431	⁵ 783,767	NA	NA	NA
Open ditches.....projects reporting...	135	19	NA	NA	NA
.....length, miles...	487.0	198	NA	NA	NA
Tile or covered drains.....projects reporting...	57	13	NA	NA	NA
.....length, miles...	160.0	48	NA	NA	NA
Levees or dikes.....projects reporting...	2	2	NA	NA	NA
.....length, miles...	0.3	20	NA	NA	NA
Pumps.....projects reporting...	1	NA	NA	NA	NA
.....number of pumps...	1	NA	NA	NA	NA
Other (see text).....projects reporting...	36	NA	NA	NA	NA
Cost of maintenance, operation, repair, and administration.....projects reporting...	162	75	NA	NA	NA
.....dollars...	11,070,401	7,420,692	NA	NA	NA
STATUS ON CENSUS DATE					
Capital investment.....dollars...	NA	NA	47,540,385	54,110,854	31,147,682
Physical works:					
Open ditches.....length, miles...	NA	NA	22,008.1	20,786.8	17,470.7
Tile drains.....length, miles...	NA	NA	10,754.7	10,438.7	8,227.6
Levees and dikes.....length, miles...	NA	NA	139.0	131.9	165.8
Pumping units.....number of units...	NA	NA	5	7	NA

NA Not available.

¹In 1940 each county drain was counted as a separate project. See text.²Not fully comparable. See text.³All projects in 1930 included with county drains. See text.⁴1920 figures exclude 32,367 acres for which type was not reported; and 5,909 acres for which date of organization was not reported.⁵Cost of new works for lands not previously drained.

DRAINAGE OF AGRICULTURAL LANDS

State Table 2.—DRAINAGE

Size of project (Based on area of agricultural land in project)	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
		Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
				Projects reporting	Acres	Projects reporting	Acres
1 All projects.....	292	11,267,848	424,724	265	11,194,466	60	73,382
2 500 to 999 acres.....	120	80,373	57,258	100	62,216	34	18,157
3 1,000 to 1,999 acres.....	59	77,882	58,743	53	64,252	16	13,630
4 2,000 to 4,999 acres.....	28	82,548	55,037	27	75,878	3	6,870
5 5,000 to 9,999 acres.....	12	85,208	33,664	12	85,208	...	...
6 10,000 to 19,999 acres.....	8	101,632	12,500	8	101,632	...	...
7 20,000 to 49,999 acres.....	8	273,059	19,379	8	273,059	...	...
8 50,000 to 99,999 acres.....	6	479,819	9,196	6	479,819	...	...
9 100,000 or more acres.....	51	10,087,327	178,947	51	10,052,402	7	34,925

State Table 3.—DRAINAGE PROJECTS, 1960,

Type of organization	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
		Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
				Projects reporting	Acres	Projects reporting	Acres
1 All projects.....	292	11,267,848	424,724	265	11,194,466	60	73,382
2 Drains owned by one landowner.....	18	22,765	16,755	16	16,755	5	6,010
3 Cooperative or mutual drains.....	188	237,047	182,647	163	204,600	48	32,447
4 Legally organized public drains.....	86	11,008,036	225,322	86	10,973,111	7	34,925

State Table 4.—DRAINAGE PROJECTS, 1960,

Year of organization	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
		Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
				Projects reporting	Acres	Projects reporting	Acres
1 All projects.....	292	11,267,848	424,724	265	11,194,466	60	73,382
2 1950-1959.....	154	197,004	136,897	127	160,397	49	36,607
3 Prior to 1950.....	138	11,070,844	287,867	138	11,034,069	11	36,775

PROJECTS, 1960, BY SIZE

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959									
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting	
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number		
254	13,598,832	158	2,528,431	135	487.0	57	160.0	2	0.3	1	1	36	1
105	438,302	81	350,284	67	88.0	20	17.4	...	...	...	...	22	2
50	289,573	33	171,858	31	41.5	10	8.4	1	0.1	1	1	5	3
23	190,766	9	78,396	9	19.5	...	...	1	0.2	...	...	3	4
8	91,920	3	31,078	3	19.5	...	...	...	...	...	...	...	5
5	291,804	...	...	...	...	...	...	...	...	...	...	...	6
7	240,673	2	8,281	2	3.3	2	0.4	...	...	...	...	1	7
6	180,343	1	9,651	1	3.1	1	0.6	...	...	...	...	1	8
50	11,875,451	29	1,878,883	22	312.1	24	133.2	...	...	...	...	4	9

BY TYPE OF ORGANIZATION

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959									
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting	
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number		
254	13,598,832	158	2,528,431	135	487.0	57	160.0	2	0.3	1	1	36	1
13	89,798	7	56,608	7	10.7	...	...	...	...	1	1	...	2
168	828,565	119	575,008	103	157.8	30	25.8	2	0.3	...	...	30	3
73	12,680,469	32	1,896,815	25	318.5	27	134.2	...	...	...	...	6	4

BY YEAR OF ORGANIZATION

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959									
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting	
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number		
254	13,598,832	158	2,528,431	135	487.0	57	160.0	2	0.3	1	1	36	1
153	821,884	115	575,843	100	156.9	27	22.5	1	0.1	...	...	27	2
101	12,776,948	43	1,952,388	35	330.1	30	137.5	1	0.2	1	1	9	3

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data.]

Item and Census year		The State	Adams	Allen	Berthol- dale	Benton	Blackford	Boone	Carroll	Cass
AREA										
1	Approximate land area.....acres 1960...	23,158,400	220,800	428,800	256,640	261,760	106,880	273,280	239,360	265,600
2	Land in farms.....acres 1959...	18,613,046	205,464	336,029	192,708	252,328	91,619	246,619	230,248	241,290
3	Drainage projects.....number 1960...	292	11	10	1	21	1	2	6	15
4	1950...	79	1	1	1	1	1	1	1	1
5	Total area in drainage projects ¹.....acres served 1960...	11,120,936	191,360	347,976	36,096	194,199	103,168	246,571	174,265	175,068
	1950...	11,017,709	191,360	349,056	36,096	190,244	103,168	231,496	172,825	172,288
7	Area not used for agriculture or not drained.....acres served 1960...	67,490	...	4,160	...	...	1,040	...	...	...
8	Net area drained and used for agriculture.....acres served 1960...	11,053,446	191,360	343,816	36,096	194,199	102,128	246,571	174,265	175,068
9	Drainage established before 1950.....acres served 1960...	10,980,064	191,360	343,216	36,096	188,984	102,128	231,496	174,265	173,268
10	Area added, 1950-1959.....acres served 1960...	73,382	...	600	...	5,215	...	15,075	...	1,800
11	Area served by two or more projects.....acres served 1960...	210,322	7,538	6,680	...	15,321	...	5,500	7,670	12,884
PROJECTS, 1960, BY TYPE OF ORGANIZATION										
12	Drains owned by one landowner.....number of projects...	18	...	...	...	1	...	...	1	...
13	acres served ² ...	22,765	...	...	...	1,250	...	...	3,500	...
14	Cooperative or mutual drains.....number of projects...	188	10	9	...	19	...	1	4	14
15	acres served ² ...	237,047	7,538	7,280	...	20,261	...	5,500	5,610	15,184
16	Legally organized public drains.....number of projects...	86	1	1	1	1	1	1	1	1
17	acres served ² ...	11,008,036	191,360	343,216	36,096	188,009	102,128	246,571	172,825	172,768
PROJECTS, 1960, BY YEAR STARTED										
18	1950-1959.....number of projects...	154	10	9	...	9	...	1	4	9
19	acres served ² ...	197,004	7,538	7,280	...	10,007	...	5,500	5,910	10,664
20	Prior to 1950.....number of projects...	138	1	1	1	12	1	1	2	6
21	acres served ² ...	11,070,844	191,360	343,216	36,096	199,513	102,128	246,571	176,025	177,288
DRAINAGE OPERATIONS, 1950-1959 ³										
22	Cost of drainage works and services.....projects reporting...	254	11	10	1	14	1	2	6	15
23	dollars...	13,598,832	348,317	639,420	8,696	196,092	270,717	358,377	205,466	347,423
24	New drainage works constructed, enlarged, or installed.....projects reporting...	158	10	9	...	12	...	2	6	6
25	dollars...	2,528,431	25,565	26,006	...	151,819	...	110,069	151,419	86,015
26	Open ditches.....projects reporting...	135	10	8	...	12	...	1	5	2
27	length, miles...	487.0	15.4	13.8	...	44.5	...	8.0	4.4	22.3
28	Tile or covered drains.....projects reporting...	57	...	1	...	2	...	1	3	6
29	length, miles...	160.0	...	0.4	...	0.2	...	10.6	19.5	24.8
30	Levees or dikes.....projects reporting...	2	...	...	...	...	...	...	1	...
31	length, miles...	0.3	...	...	...	...	...	...	0.2	...
32	Pumps.....projects reporting...	1	...	...	...	...	...	...	...	...
33	number of pumps...	1	...	...	...	...	...	...	...	...
34	Other (see text).....projects reporting...	36	...	...	...	5	...	...	3	...
35	Cost of maintenance, operation, repair, and administration.....projects reporting...	162	1	1	1	8	1	1	6	14
36	dollars...	11,070,401	322,752	613,414	8,696	44,273	270,717	248,308	54,047	261,408

¹Land served by two or more projects counted only once.²Acres served by two projects are included for each project. See text.³Includes projects taken over by another project prior to 1960. See text.

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

Item and Census year		Clay	Clinton	Daviess	Decatur	De Kalb	Delaware	Dubois	Elkhart	Payette
AREA										
1	Approximate land area..... acres 1960...	232,960	260,480	277,120	236,800	233,600	254,720	277,120	299,520	137,600
2	Land in farms..... acres 1959...	176,638	247,355	243,247	220,507	210,958	200,950	219,488	234,875	120,871
3	Drainage projects..... number 1960...	4	5	1	2	1	1	2	2	2
4	..... 1950...	1	1	1	1	1	1	1	1	1
5	Total area in drainage projects ¹ acres served 1960...	36,736	205,824	153,600	4,852	212,736	218,624	9,219	212,736	12,858
6	..... 1950...	34,976	205,824	153,600	4,352	212,736	218,624	8,704	212,736	11,878
7	Area not used for agriculture or not drained..... acres served 1960...	...	...	2,720	...	...	...	...	...	...
8	Nat area drained and used for agriculture..... acres served 1960...	36,736	205,824	150,880	4,852	212,736	218,624	9,219	212,736	12,858
9	Drainage established before 1950..... acres served 1960...	34,976	205,824	150,880	4,352	212,736	218,624	8,704	212,736	11,878
10	Area added, 1950-1959..... acres served 1960...	1,760	...	...	500	...	...	515	...	980
11	Area served by two or more projects..... acres served 1960...	1,000	4,092	...	...	...	...	...	600	...
PROJECTS, 1960, BY TYPE OF ORGANIZATION										
12	Drains owned by one landowner..... number of projects...	2	...	...	...	...	...	...	...	...
13	..... acres served ² ...	2,760	...	...	...	...	...	...	...	...
14	Cooperative or mutual drains..... number of projects...	...	4	...	1	...	...	1	1	1
15	..... acres served ²...	...	4,092	...	500	...	...	515	600	980
16	Legally organized public drains..... number of projects...	2	1	1	1	1	1	1	1	1
17	..... acres served ² ...	34,976	205,824	150,880	4,352	212,736	218,624	8,704	212,736	11,878
PROJECTS, 1960, BY YEAR STARTED										
18	1950-1959..... number of projects...	1	4	...	1	...	...	1	...	1
19	..... acres served ² ...	1,760	4,092	...	500	...	...	515	...	980
20	Prior to 1950..... number of projects...	3	1	1	1	1	1	1	2	1
21	..... acres served ² ...	35,976	205,824	150,880	4,352	212,736	218,624	8,704	213,336	11,878
DRAINAGE OPERATIONS, 1950-1959 ³										
22	Cost of drainage works and services..... projects reporting...	4	5	1	(4)	1	1	1	2	2
23	..... dollars...	120,646	162,784	298,886	(4)	384,073	314,918	6,997	82,406	36,054
24	New drainage works constructed, enlarged, or installed..... projects reporting...	(4)	5	1	(4)	...	...	1	1	1
25	..... dollars...	(4)	126,510	47,394	(4)	...	...	6,997	20,372	17,992
26	Open ditches..... projects reporting...	(4)	5	1	...	...	...	1	1	...
27	..... length, miles...	(4)	6.1	47.0	...	...	...	3.3	4.7	...
28	Tile or covered drains..... projects reporting...	...	2	...	(4)	...	...	...	...	1
29	..... length, miles...	...	19.5	...	(4)	...	...	...	...	2.0
30	Levees or dikes..... projects reporting...	...	...	...	...	...	...	...	...	...
31	..... length, miles...	...	...	...	...	...	...	...	...	...
32	Pumps..... projects reporting...	(4)	...	...	...	...	...	...	...	...
33	..... number of pumps...	(4)	...	...	...	...	...	...	...	...
34	Other (see text)..... projects reporting...	...	4	...	...	...	...	...	...	...
35	Cost of maintenance, operation, repair, and administration..... projects reporting...	3	5	1	...	1	1	...	2	1
36	..... dollars...	103,546	36,274	251,492	...	384,073	314,918	...	61,834	18,462

¹Land served by two or more projects counted only once.²Acres served by two projects are included for each project. See text.³Includes projects taken over by another project prior to 1960. See text.⁴Included in State total only.

DRAINAGE OF AGRICULTURAL LANDS

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

Item and Census year		Fountain	Franklin	Fulton	Gibson	Grant	Greene	Hamilton	Hancock	Harrison
AREA										
1	Approximate land area.....acres 1960...	254,080	252,160	234,880	319,360	269,440	351,360	256,640	195,200	306,560
2	Land in farms.....acres 1959...	234,029	215,804	223,161	256,183	223,877	247,729	216,917	190,543	224,652
3	Drainage projects.....number 1960...	8	1	3	3	1	1	2	1	1
4	1950...	1	1	1	1	1	1	1	1	...
5	Total area in drainage projects ¹.....acres served 1960...	31,798	9,216	219,110	240,000	224,398	134,179	180,642	137,856	1,905
6	1950...	27,892	9,216	219,110	240,000	224,398	131,979	180,642	137,856	...
7	Area not used for agriculture or not drained.....acres served 1960...	...	...	...	1,040	6,560	1,440	...	...	...
8	Net area drained and used for agriculture.....acres served 1960...	31,798	9,216	219,110	238,960	217,838	132,739	180,642	137,856	1,905
9	Drainage established before 1950.....acres served 1960...	27,892	9,216	219,110	238,960	217,838	132,739	180,642	137,856	1,905
10	Area added, 1950-1959.....acres served 1960...	3,906	...	...	...	...	...	...	...	...
11	Area served by two or more projects.....acres served 1960...	579	...	2,650	...	...	...	650	...	...
PROJECTS, 1960, BY TYPE OF ORGANIZATION										
12	Drains owned by one landowner.....number of projects...	...	...	...	...	...	...	1	...	...
13	acres served ²...	...	...	...	...	...	...	650	...	...
14	Cooperative or mutual drains.....number of projects...	7	...	2	...	...	...	...	...	...
15	acres served ² ...	6,065	...	2,650	...	...	...	...	...	...
16	Legally organized public drains.....number of projects...	1	1	1	3	1	1	1	1	1
17	acres served ² ...	26,312	9,216	219,110	238,960	217,838	132,739	180,642	137,856	1,905
PROJECTS, 1960, BY YEAR STARTED										
18	1950-1959.....number of projects...	4	...	2	2	...	...	1	...	...
19	acres served ² ...	4,146	...	2,650	23,300	...	...	650	...	...
20	Prior to 1950.....number of projects...	4	1	1	1	1	1	1	1	1
21	acres served ² ...	28,231	9,216	219,110	215,660	217,838	132,739	180,642	137,856	1,905
DRAINAGE OPERATIONS, 1950-1959 ³										
22	Cost of drainage works and services.....projects reporting...	7	1	3	3	1	1	2	1	...
23	dollars...	43,425	5,065	570,462	135,339	540,000	195,149	295,263	315,652	...
24	New drainage works constructed, enlarged, or installed.....projects reporting...	6	...	3	...	...	...	...	1	...
25	dollars...	36,766	...	44,929	...	...	...	...	5,751	...
26	Open ditches.....projects reporting...	6	...	3	...	...	...	...	...	...
27	length, miles...	9.6	...	8.1	...	...	...	...	...	...
28	Tile or covered drains.....projects reporting...	2	...	2	...	...	...	...	1	...
29	length, miles...	0.7	...	1.1	...	...	...	...	1.2	...
30	Levees or dikes.....projects reporting...	...	...	...	...	...	...	...	...	...
31	length, miles...	...	...	...	...	...	...	...	...	...
32	Pumps.....projects reporting...	...	...	...	...	...	...	...	...	...
33	number of pumps...	...	...	...	...	...	...	...	...	...
34	Other (see text).....projects reporting...	6	...	1	...	...	...	...	...	...
35	Cost of maintenance, operation, repair, and administration.....projects reporting...	2	1	2	3	1	1	2	1	...
36	dollars...	6,659	5,065	525,533	135,339	540,000	195,149	295,263	309,901	...

¹Land served by two or more projects counted only once.²Acres served by two projects are included for each project. See text.³Includes projects taken over by another project prior to 1960. See text.

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

	Item and Census year	Hendricks	Henry	Howard	Hunting- ton	Jackson	Jasper	Jay	Jennings	Johnson
AREA										
1	Approximate land area.....acres 1960...	266,880	256,000	186,880	249,600	332,800	359,040	247,040	241,280	201,600
2	Land in farms.....acres 1959...	242,126	226,027	171,755	220,036	229,781	328,935	221,508	170,205	166,150
3	Drainage projects.....number 1960...	5	2	1	2	1	12	1	1	1
4	1950...	1	1	1	1	1	1	1	1	1
5	Total area in drainage projects ¹.....acres served 1960...	96,505	226,303	171,136	182,400	168,192	340,762	243,778	4,352	70,912
6	1950...	96,205	220,288	171,136	182,400	168,192	340,301	243,778	4,352	70,912
7	Area not used for agriculture or not drained.....acres served 1960...	...	...	...	1,400	...	...	...	...	1,160
8	Net area drained and used for agriculture.....acres served 1960...	96,505	226,303	171,136	181,000	168,192	340,762	243,778	4,352	69,752
9	Drainage established before 1950.....acres served 1960...	96,205	225,843	171,136	181,000	168,192	340,301	243,778	4,352	69,752
10	Area added, 1950-1959.....acres served 1960...	300	460	...	...	...	461	...	...	...
11	Area served by two or more projects.....acres served 1960...	4,818	750	...	200	...	20,071	...	...	...
PROJECTS, 1960, BY TYPE OF ORGANIZATION										
12	Drains owned by one landowner.....number of projects...	...	...	...	...	...	3	...	...	...
13	acres served ²...	...	...	...	...	...	6,300	...	...	...
14	Cooperative or mutual drains.....number of projects...	4	1	...	1	...	8	...	...	...
15	acres served ² ...	5,118	750	...	200	...	14,232	...	...	...
16	Legally organized public drains.....number of projects...	1	1	1	1	1	1	1	1	1
17	acres served ² ...	96,205	226,303	171,136	181,000	168,192	340,301	243,778	4,352	69,752
PROJECTS, 1960, BY YEAR STARTED										
18	1950-1959.....number of projects...	3	1	...	1	...	6	...	...	...
19	acres served ² ...	2,618	750	...	200	...	9,110	...	...	...
20	Prior to 1950.....number of projects...	2	1	1	1	1	6	1	1	1
21	acres served ² ...	98,705	226,303	171,136	181,000	168,192	351,723	243,778	4,352	69,752
DRAINAGE OPERATIONS, 1950-1959 ³										
22	Cost of drainage works and services.....projects reporting...	5	2	1	2	1	10	1	...	1
23	dollars...	36,718	180,442	276,192	42,057	30,074	135,548	103,705	...	73,706
24	New drainage works constructed, enlarged, or installed.....projects reporting...	...	2	1	1	...	4	...	...	...
25	dollars...	...	120,442	6,470	717	...	31,267	...	...	...
26	Open ditches.....projects reporting...	...	2	...	1	...	3	...	...	...
27	length, miles...	...	13.8	...	0.2	...	8.2	...	...	...
28	Tile or covered drains.....projects reporting...	...	2	1	...	...	1	...	...	...
29	length, miles...	...	2.5	1.0	...	...	1.0	...	...	...
30	Levees or dikes.....projects reporting...	...	...	...	...	...	...	...	...	...
31	length, miles...	...	...	...	...	...	...	...	...	...
32	Pumps.....projects reporting...	...	...	...	...	...	...	...	...	...
33	number of pumps...	...	...	...	...	...	...	...	...	...
34	Other (see text).....projects reporting...	...	1	...	...	...	...	...	...	...
35	Cost of maintenance, operation, repair, and administration.....projects reporting...	5	1	1	1	1	7	1	...	1
36	dollars...	36,718	60,000	269,722	41,340	30,074	104,281	103,705	...	73,706

¹Land served by two or more projects counted only once.²Acres served by two projects are included for each project. See text.³Includes projects taken over by another project prior to 1960. See text.

DRAINAGE OF AGRICULTURAL LANDS

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

Item and Census year		Knox	Kosciusko	Lagrange	Lake	La Porte	Madison	Marion	Marshall	Miami
AREA										
1	Approximate land area.....acres 1960...	330,880	344,320	242,560	328,960	389,120	289,920	257,280	284,160	243,200
2	Land in farms.....acres 1950...	302,364	302,391	213,985	191,081	305,954	246,700	105,941	261,353	213,876
3	Drainage projects.....number 1960...	1	1	1	8	1	12	1	1	2
4	.....1950...	1	1	1	1	1	1	1	1	1
5	Total area in drainage projects ¹.....acres served 1960...	196,380	305,421	181,813	158,057	203,504	226,944	85,891	249,421	121,212
6	.....1950...	196,380	305,421	181,813	158,057	203,184	226,944	71,251	247,501	107,512
7	Area not used for agriculture or not drained.....acres served 1960...	1,440	1,600	1,600	1,134	5,820	...	11,040	...	2,940
8	Net area drained and used for agriculture.....acres served 1960...	194,940	303,821	180,213	156,923	197,684	226,944	74,851	249,421	118,272
9	Drainage established before 1950.....acres served 1960...	194,940	303,821	180,213	156,923	197,684	226,944	74,851	247,501	105,292
10	Area added, 1950-1959.....acres served 1960...	...	...	...	...	...	...	...	1,920	12,980
11	Area served by two or more projects.....acres served 1960...	...	...	...	8,360	...	11,525	...	...	420
PROJECTS, 1960, BY TYPE OF ORGANIZATION										
12	Drains owned by one landowner.....number of projects...	...	...	...	...	...	...	...	...	...
13	.....acres served ²...	...	...	...	...	...	...	...	...	...
14	Cooperative or mutual drains.....number of projects...	...	...	...	7	...	11	...	...	1
15	.....acres served ²...	...	...	...	8,360	...	11,525	...	...	520
16	Legally organized public drains.....number of projects...	1	1	1	1	1	1	1	1	1
17	.....acres served ³ ...	194,940	303,821	180,213	156,923	197,684	226,944	74,851	249,421	118,172
PROJECTS, 1960, BY YEAR STARTED										
18	1950-1959.....number of projects...	...	...	...	6	...	11	...	...	1
19	.....acres served ²...	...	...	...	5,760	...	11,525	...	...	520
20	Prior to 1950.....number of projects...	1	1	1	2	1	1	1	1	1
21	.....acres served ² ...	194,940	303,821	180,213	159,523	197,684	226,944	74,851	249,421	118,172
DRAINAGE OPERATIONS, 1950-1959 ³										
22	Cost of drainage works and services.....projects reporting...	1	1	1	8	1	12	1	1	2
23	.....dollars...	440,719	296,911	130,695	161,465	44,309	96,934	6,121	268,785	343,041
24	New drainage works constructed, enlarged, or installed.....projects reporting...	...	1	1	4	1	11	...	1	2
25	.....dollars...	...	8,054	130,695	75,187	43,309	49,812	...	83,729	142,688
26	Open ditches.....projects reporting...	...	...	1	4	...	10	...	1	2
27	.....length, miles...	...	...	31.7	11.3	...	18.2	...	38.2	16.0
28	Tile or covered drains.....projects reporting...	...	1	1	1	1	3	...	...	1
29	.....length, miles...	...	0.9	3.0	0.3	0.1	1.7	...	...	16.4
30	Levees or dikes.....projects reporting...	...	...	...	...	...	...	...	...	...
31	.....length, miles...	...	...	...	...	...	...	...	...	...
32	Pumps.....projects reporting...	...	...	...	...	...	...	...	...	...
33	.....number of pumps...	...	...	...	...	...	...	...	...	...
34	Other (see text).....projects reporting...	...	...	...	...	1	...	...	...	...
35	Cost of maintenance, operation, repair, and administration.....projects reporting...	1	1	...	5	1	1	1	1	1
36	.....dollars...	440,719	288,857	...	86,278	1,000	47,122	6,121	185,056	200,353

¹Land served by two or more projects counted only once.²Acres served by two projects are included for each project. See text.³Includes projects taken over by another project prior to 1960. See text.

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

	Item and Census year	Montgomery	Morgan	Newton	Noble	Ohio	Owen	Parke	Perry	Pike
AREA										
1	Approximate land area.....acres 1960...	324,480	259,840	263,040	262,400	55,680	246,400	288,640	245,760	234,400
2	Land in farms.....acres 1959...	295,284	182,835	233,631	240,511	46,182	156,162	229,105	137,066	120,411
3	Drainage projects..... number 1960...	16	1	26	3	1	1	1	1	1
4	1950...	1	1	1	1	1	1	1	1	1
5	Total area in drainage projects ¹ acres served 1960...	142,897	41,344	239,624	188,704	1,229	4,608	15,616	768	122,178
6	1950...	136,478	41,344	238,464	187,904	1,229	4,608	15,616	768	123,238
7	Area not used for agriculture or not drained..... acres served 1960...	...	...	1,200	...	...	...	...	...	...
8	Net area drained and used for agriculture..... acres served 1960...	142,897	41,344	238,424	188,704	1,229	4,608	15,616	768	122,178
9	Drainage established before 1950..... acres served 1960...	137,838	41,344	238,424	187,904	1,229	4,608	15,616	768	122,178
10	Area added, 1950-1959..... acres served 1960...	5,059	...	...	800	...	...	...	...	...
11	Area served by two or more projects..... acres served 1960...	9,276	...	25,554	1,300	...	...	...	...	...
PROJECTS, 1960, BY TYPE OF ORGANIZATION										
12	Drains owned by one landowner..... number of projects...	1	...	5	...	...	...	...	...	...
13	acres served ² ...	1,000	...	2,805	...	...	...	...	...	...
14	Cooperative or mutual drains..... number of projects...	14	...	20	2	...	...	...	...	...
15	acres served ² ...	13,895	...	26,529	2,100	...	...	...	...	...
16	Legally organized public drains..... number of projects...	1	1	1	1	1	1	1	1	1
17	acres served ² ...	137,278	41,344	237,724	187,904	1,229	4,608	15,616	768	122,178
PROJECTS, 1960, BY YEAR STARTED										
18	1950-1959..... number of projects...	13	...	14	2	...	...	...	...	...
19	acres served ² ...	11,095	...	17,649	2,100	...	...	...	...	...
20	Prior to 1950..... number of projects...	3	1	12	1	1	1	1	1	1
21	acres served ² ...	141,078	41,344	249,409	187,904	1,229	4,608	15,616	768	122,178
DRAINAGE OPERATIONS, 1950-1959 ³										
22	Cost of drainage works and services.....projects reporting...	14	1	18	3	...	...	...	...	...
23	dollars...	227,212	28,932	144,403	127,701	...	...	...	...	...
24	New drainage works constructed, enlarged, or installed.....projects reporting...	9	...	9	3	...	...	...	...	...
25	dollars...	71,208	...	87,094	21,456	...	...	...	...	...
26	Open ditches.....projects reporting...	6	...	9	3	...	...	...	...	...
27	length, miles...	7.8	...	20.8	5.9	...	...	...	...	...
28	Tile or covered drains.....projects reporting...	4	...	1	1	...	...	...	...	...
29	length, miles...	5.2	...	0.1	2.0	...	...	...	...	...
30	Levees or dikes.....projects reporting...	...	...	...	...	...	...	...	...	...
31	length, miles...	...	...	...	...	...	...	...	...	...
32	Pumps.....projects reporting...	...	...	...	...	...	...	...	...	...
33	number of pumps...	...	...	...	...	...	...	...	...	...
34	Other (see text).....projects reporting...	1	...	5	...	...	...	...	...	...
35	Cost of maintenance, operation, repair, and administration.....projects reporting...	8	1	11	1	...	...	...	...	...
36	dollars...	156,004	28,932	57,309	106,245	...	...	...	...	...

¹Land served by two or more projects counted only once.²Acres served by two projects are included for each project. See text.³Includes projects taken over by another project prior to 1960. See text.

DRAINAGE OF AGRICULTURAL LANDS

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data.]

	Item and Census year	Porter	Posey	Pulaski	Putnam	Randolph	Rush	St. Joseph	Scott	Shelby
	AREA									
1	Approximate land area.....acres 1960...	272,000	264,960	277,120	312,320	292,480	261,760	296,880	123,520	261,760
2	Land in farms.....acres 1959...	206,571	230,799	252,659	264,434	271,672	255,010	206,408	83,480	234,689
3	Drainage projects.....number 1960...	1	2	1	1	1	1	4	1	1
4	.....1950...	1	1	1	1	1	1	1	1	1
5	Total area in drainage projects ¹.....acres served 1960...	189,440	199,424	251,366	12,698	251,854	141,176	263,012	12,544	96,707
6	.....1950...	189,440	199,424	251,366	12,698	249,728	137,856	263,012	12,544	92,800
7	Area not used for agriculture or not drained.....acres served 1960...	3,080	...	...	...	...	...	7,280	...	...
8	Net area drained and used for agriculture.....acres served 1960...	186,360	199,424	251,366	12,698	251,854	141,176	255,732	12,544	96,707
9	Drainage established before 1950.....acres served 1960...	186,360	199,424	251,366	12,698	251,584	137,856	255,732	12,544	96,707
10	Area added, 1950-1959.....acres served 1960...	...	...	...	...	270	3,320	...	...	...
11	Area served by two or more projects.....acres served 1960...	...	600	...	...	...	...	19,764	...	...
	PROJECTS, 1960, BY TYPE OF ORGANIZATION									
12	Drains owned by one landowner.....number of projects...	...	...	...	...	...	...	...	...	...
13	.....acres served ²...	...	...	...	...	...	...	...	...	...
14	Cooperative or mutual drains.....number of projects...	...	1	...	...	...	...	3	...	...
15	.....acres served ²...	...	600	...	...	...	...	19,764	...	...
16	Legally organized public drains.....number of projects...	1	1	1	1	1	1	1	1	1
17	.....acres served ² ...	186,360	199,424	251,366	12,698	251,854	141,176	255,732	12,544	96,707
	PROJECTS, 1960, BY YEAR STARTED									
18	1950-1959.....number of projects...	...	1	...	...	...	...	2	...	...
19	.....acres served ²...	...	600	...	...	...	...	15,125	...	...
20	Prior to 1950.....number of projects...	1	1	1	1	1	1	2	1	1
21	.....acres served ² ...	186,360	199,424	251,366	12,698	251,854	141,176	260,371	12,544	96,707
	DRAINAGE OPERATIONS, 1950-1959 ³									
22	Cost of drainage works and services.....projects reporting...	1	2	1	...	1	1	4	1	1
23	.....dollars...	42,811	24,144	230,055	...	436,025	283,772	407,311	500	54,199
24	New drainage works constructed, enlarged, or installed.....projects reporting...	1	...	1	...	1	1	3	...	...
25	.....dollars...	18,742	...	39,996	...	73,364	97,343	140,935	...	...
26	Open ditches.....projects reporting...	...	...	1	...	1	1	3	...	...
27	.....length, miles...	...	...	6.2	...	8.2	8.9	41.1	...	...
28	Tile or covered drains.....projects reporting...	1	...	1	...	1	1	1	...	...
29	.....length, miles...	2.6	...	2.9	...	7.7	9.2	13.0	...	...
30	Levees or dikes.....projects reporting...	...	...	...	...	...	...	...	...	...
31	.....length, miles...	...	...	...	...	...	...	...	...	...
32	Pumps.....projects reporting...	...	...	...	...	...	...	...	...	...
33	.....number of pumps...	...	...	...	...	...	...	...	...	...
34	Other (see text).....projects reporting...	...	...	...	...	...	...	...	...	...
35	Cost of maintenance, operation, repair, and administration.....projects reporting...	1	2	1	...	1	1	3	1	1
36	.....dollars...	24,069	24,144	190,059	...	362,661	186,429	266,376	500	54,199

¹Land served by two or more projects counted only once.²Acres served by two projects are included for each project. See text.³Includes projects taken over by another project prior to 1960. See text.

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data.]

	Item and Census year	Spencer	Starke	Steuben	Sullivan	Tiptecanoe	Tipton	Union	Vanderburgh	Vermillion
	AREA									
1	Approximate land area.....acres 1960...	253,440	199,040	198,400	292,480	320,640	167,040	107,520	154,240	168,320
2	Land in farms.....acres 1959...	201,308	163,844	169,997	223,712	280,727	163,571	98,514	100,713	131,585
3	Drainage projects.....number 1960...	3	1	1	3	17	1	2	2	3
4	1950...	1	1	1	1	1	1	1	1	1
5	Total area in drainage projects ¹.....acres served 1960...	83,040	190,065	142,336	39,456	155,415	167,040	4,341	64,476	7,296
6	1950...	83,040	190,065	142,336	39,456	147,584	167,040	3,789	64,336	7,296
7	Area not used for agriculture or not drained.....acres served 1960...	...	...	...	...	1,920	720	...	6,616	...
8	Net area drained and used for agriculture.....acres served 1960...	83,040	190,065	142,336	39,456	153,495	166,320	4,341	57,860	7,296
9	Drainage established before 1950.....acres served 1960...	83,040	190,065	142,336	39,456	149,214	166,320	3,789	57,860	7,296
10	Area added, 1950-1959.....acres served 1960...	...	...	...	...	4,281	...	552	...	...
11	Area served by two or more projects.....acres served 1960...	...	...	...	15,000	11,432	...	...	...	2,800
	PROJECTS, 1960, BY TYPE OF ORGANIZATION									
12	Drains owned by one landowner.....number of projects...	...	...	...	...	...	...	...	...	...
13	acres served ²...	...	...	...	...	...	...	...	...	...
14	Cooperative or mutual drains.....number of projects...	2	...	...	...	16	...	1	...	2
15	acres served ² ...	11,648	...	...	...	20,263	...	552	...	2,800
16	Legally organized public drains.....number of projects...	1	1	1	3	1	1	1	2	1
17	acres served ² ...	71,392	190,065	142,336	54,456	145,664	166,320	3,789	57,860	7,296
	PROJECTS, 1960, BY YEAR STARTED									
18	1950-1959.....number of projects...	...	...	...	...	8	...	1	...	1
19	acres served ²...	...	...	...	...	8,942	...	552	...	1,000
20	Prior to 1950.....number of projects...	3	1	1	3	9	1	1	2	2
21	acres served ² ...	83,040	190,065	142,336	54,456	156,985	166,320	3,789	57,860	9,096
	DRAINAGE OPERATIONS, 1950-1959 ³									
22	Cost of drainage works and services.....projects reporting...	1	1	1	3	17	1	2	2	2
23	dollars...	15,226	61,988	116,581	262,297	346,641	38,978	9,442	108,187	6,750
24	New drainage works constructed, enlarged, or installed.....projects reporting...	...	1	...	...	12	...	(4)	1	1
25	dollars...	...	26,064	...	...	204,159	...	(4)	3,130	2,500
26	Open ditches.....projects reporting...	...	1	...	...	12	...	...	1	1
27	length, miles...	...	25.0	...	...	11.9	...	...	0.2	0.2
28	Tile or covered drains.....projects reporting...	...	1	...	...	4	...	(4)	1	1
29	length, miles...	...	1.0	...	...	4.1	...	(4)	0.1	0.1
30	Levees or dikes.....projects reporting...	...	...	...	...	...	...	...	...	1
31	length, miles...	...	...	...	...	...	...	...	...	0.1
32	Pumps.....projects reporting...	...	...	...	...	...	...	...	...	...
33	number of pumps...	...	...	...	...	...	...	...	...	...
34	Other (see text).....projects reporting...	...	...	...	...	4	...	...	...	1
35	Cost of maintenance, operation, repair, and administration.....projects reporting...	1	1	1	3	13	1	1	2	2
36	dollars...	15,226	35,924	116,581	262,297	142,482	38,978	3,152	105,057	4,250

¹Land served by two or more projects counted only once.²Acres served by two projects are included for each project. See text.³Includes projects taken over by another project prior to 1960. See text.⁴Included in State total only.

DRAINAGE OF AGRICULTURAL LANDS

County Table 1.—DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

Item and Census year	Vigo	Wabash	Warren	Warrick	Washington	Wayne	Wells	White	Whitley
AREA									
1 Approximate land area.....acres 1960...	265,600	269,440	235,520	250,240	330,340	259,200	235,520	318,080	215,040
2 Land in farms.....acres 1959...	179,274	246,582	209,853	145,104	266,323	225,442	222,221	296,318	195,272
3 Drainage projects.....number 1960...	6	5	17	3	1	1	2	4	1
4 1950...	1	1	1	1	1	1	1	1	1
5 Total area in drainage projects ¹.....acres served 1960...	35,862	172,928	79,240	143,104	12,544	23,885	206,029	264,464	206,251
6 1950...	31,962	172,928	76,800	143,104	12,544	23,885	206,029	264,064	206,251
7 Area not used for agriculture or not drained.....acres served 1960...	800	...	...	...	...	...	780	...	...
8 Net area drained and used for agriculture.....acres served 1960...	35,062	172,928	79,240	143,104	12,544	23,885	205,249	264,464	206,251
9 Drainage established before 1950.....acres served 1960...	31,162	172,928	70,912	143,104	12,544	23,885	205,249	264,064	206,251
10 Area added, 1950-1959.....acres served 1960...	3,900	...	8,328	...	...	...	...	400	...
11 Area served by two or more projects.....acres served 1960...	2,800	2,390	4,378	1,520	...	...	400	1,800	...
PROJECTS, 1960, BY TYPE OF ORGANIZATION									
12 Drains owned by one landowner.....number of projects...	2	...	...	...	...	...	...	3	...
13 acres served ² ...	2,300	...	...	...	...	...	...	2,200	...
14 Cooperative or mutual drains.....number of projects...	3	4	16	2	...	...	1	...	...
15 acres served ² ...	4,400	2,390	12,706	1,520	...	...	400	...	...
16 Legally organized public drains.....number of projects...	1	1	1	1	1	1	1	1	1
17 acres served ² ...	31,162	172,928	70,912	143,104	12,544	23,885	205,249	264,064	206,251
PROJECTS, 1960, BY YEAR STARTED									
18 1950-1959.....number of projects...	5	4	14	2	...	...	1	3	...
19 acres served ² ...	6,700	2,390	10,756	1,520	...	...	400	2,200	...
20 Prior to 1950.....number of projects...	1	1	3	1	1	1	1	1	1
21 acres served ² ...	31,162	172,928	72,862	143,104	12,544	23,885	205,249	264,064	206,251
DRAINAGE OPERATIONS, 1950-1959 ³									
22 Cost of drainage works and services.....projects reporting...	5	5	14	3	...	1	2	4	1
23 dollars...	26,425	223,739	48,571	152,689	...	10,328	98,542	1,083,730	427,797
24 New drainage works constructed, enlarged, or installed.....projects reporting...	2	4	11	...	...	...	(⁴)	4	...
25 dollars...	5,250	7,876	34,861	...	...	...	(⁴)	115,786	...
26 Open ditches.....projects reporting...	2	3	9	...	...	...	(⁴)	4	...
27 length, miles...	1.7	2.2	7.9	...	...	...	(⁴)	13.3	...
28 Tile or covered drains.....projects reporting...	...	1	2	...	...	...	...	1	...
29 length, miles...	...	0.4	1.0	...	...	...	...	1.7	...
30 Levees or dikes.....projects reporting...	...	...	...	...	...	...	...	...	...
31 length, miles...	...	...	...	...	...	...	...	...	...
32 Pumps.....projects reporting...	...	...	...	...	...	...	...	...	...
33 number of pumps...	...	...	...	...	...	...	...	...	...
34 Other (see text).....projects reporting...	...	...	5	...	...	...	...	...	...
35 Cost of maintenance, operation, repair, and administration.....projects reporting...	4	1	7	3	...	1	1	1	1
36 dollars...	21,175	215,863	13,710	152,689	...	10,328	97,846	967,944	427,797

¹Land served by two or more projects counted only once.²Acres served by two projects are included for each project. See text.³Includes projects taken over by another project prior to 1960. See text.⁴Included in State total only.

State Table 1.—DRAINAGE PROJECTS—NUMBER, AREA, COST, AND WORKS, 1920 TO 1960

[See text for comparability of data]

Item	1960 Census	1950 Census	1940 Census	1930 Census	1920 Census
AREA					
Approximate land area.....acres...	35,860,480	35,868,800	35,831,040	35,575,040	35,575,040
Land in farms.....acres...	33,830,950	34,264,639	34,148,673	34,019,332	33,474,896
Drainage projects.....number...	249	86	¹ 3,180	NA	NA
Total area in drainage projects.....acres served...	6,884,409	6,734,863	6,164,344	6,137,649	5,224,478
Area not used for agriculture or not drained.....acres served...	13,070	NA	NA	NA	NA
Net area drained and used for agriculture.....acres served...	6,871,339	NA	² 5,945,393	² 6,105,496	NA
Drainage established 10 years or more before Census date.....acres served...	6,748,104	NA	NA	NA	NA
Drainage established within 10 years of Census date.....acres served...	123,235	NA	NA	NA	NA
Area served by two or more projects.....acres served...	190,819	NA	1,380,587	1,259,995	681,265
PROJECTS BY TYPE OF ORGANIZATION					
Drains owned by one landowner.....number of projects...	10	(³)	NA	NA	NA
.....acres served...	11,428	(³)	53,786	21,557	12,795
Cooperative or mutual drains.....number of projects...	89	(³)	...	...	...
.....acres served...	125,657	(³)	...	...	...
Legally organized public drains.....number of projects...	150	³ 86	NA	NA	NA
.....acres served...	6,926,485	³ 6,734,863	6,110,558	6,116,092	5,211,683
PROJECTS BY YEAR STARTED⁴					
Started 10 years or more before Census date.....number of projects...	185	*	NA	NA	NA
.....acres served...	6,988,202	NA	6,092,679	5,517,032	⁴ 2,134,524
Started within 10 years of Census date.....number of projects...	64	NA	NA	NA	NA
.....acres served...	¹ 75,368	NA	71,665	620,617	⁴ 3,077,143
OPERATIONS, 10-YEAR PERIOD PRECEDING CENSUS DATE					
Cost of drainage works and services.....projects reporting...	202	77	NA	NA	NA
.....dollars...	21,032,299	13,302,757	NA	NA	NA
New drainage works constructed, enlarged, or installed.....projects reporting...	110	⁵ 35	NA	NA	NA
.....cost, dollars...	5,726,914	² 2,143,433	NA	NA	NA
Open ditches.....projects reporting...	78	33	NA	NA	NA
.....length, miles...	271.1	203	NA	NA	NA
Tile or covered drains.....projects reporting...	60	23	NA	NA	NA
.....length, miles...	282.8	165	NA	NA	NA
Levees or dikes.....projects reporting...	6	4	NA	NA	NA
.....length, miles...	6.5	35	NA	NA	NA
Pumps.....projects reporting...	2	NA	NA	NA	NA
.....number of pumps...	2	NA	NA	NA	NA
Other (see text).....projects reporting...	19	NA	NA	NA	NA
Cost of maintenance, operation, repair, and administration.....projects reporting...	138	77	NA	NA	NA
.....dollars...	15,305,385	11,159,324	NA	NA	NA
STATUS ON CENSUS DATE					
Capital investment.....dollars...	NA	NA	75,374,497	77,478,893	49,627,304
Physical works:					
Open ditches.....length, miles...	NA	NA	5,189.7	4,800.0	3,998.0
Tile drains.....length, miles...	NA	NA	12,873.2	13,382.4	10,384.9
Levees and dikes.....length, miles...	NA	NA	456.8	113.4	45.2
Pumping units.....number of units...	NA	NA	18	21	NA

NA Not available.

¹In 1940 each county drain was counted as a separate project. See text.²Not fully comparable. See text.³All projects in 1950 included with county drains. See text.⁴1920 figures exclude 12,811 acres for which date of organization was not reported.⁵Cost of new works for lands not previously drained.

State Table 2.—DRAINAGE

Size of project (Based on area of agricultural land in project)	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
		Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
				Projects reporting	Acres	Projects reporting	Acres
1 All projects.....	249	7,063,570	383,050	203	6,939,308	77	124,262
2 500 to 999 acres.....	61	40,868	8,224	33	21,808	31	19,060
3 1,000 to 1,999 acres.....	51	72,690	12,500	38	52,784	16	19,906
4 2,000 to 4,999 acres.....	36	115,231	12,652	31	97,849	7	17,382
5 5,000 to 9,999 acres.....	19	140,346	2,500	19	139,746	1	600
6 10,000 to 19,999 acres.....	30	429,493	11,749	30	427,883	1	1,610
7 20,000 to 49,999 acres.....	16	532,875	3,960	16	532,875	...	...
8 50,000 to 99,999 acres.....	13	932,852	268,999	13	928,154	4	4,698
9 100,000 or more acres.....	23	4,799,215	62,506	23	4,738,209	17	61,006

State Table 3.—DRAINAGE PROJECTS, 1960.

Type of organization	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
		Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
				Projects reporting	Acres	Projects reporting	Acres
1 All projects.....	249	7,063,570	383,050	203	6,939,308	77	124,262
2 Drains owned by one landowner.....	10	11,428	2,935	3	4,215	8	7,213
3 Cooperative or mutual drains.....	89	125,697	29,441	50	76,522	46	49,135
4 Legally organized public drains.....	150	6,926,485	350,674	150	6,888,571	23	67,914

State Table 4.—DRAINAGE PROJECTS, 1960.

Year of organization	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
		Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
				Projects reporting	Acres	Projects reporting	Acres
1 All projects.....	249	7,063,570	383,050	203	6,939,308	77	124,262
2 1950-1959.....	64	75,368	20,751	18	19,724	52	55,644
3 Prior to 1950.....	185	6,988,202	362,299	185	6,919,584	25	68,618

PROJECTS, 1960, BY SIZE

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959									
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting	
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number		
202	21,032,299	110	5,726,914	78	271.1	60	282.8	6	6.5	2	2	19	1
50	255,517	38	241,123	20	22.0	25	51.5	1	1.5	1	1	3	2
40	186,667	22	120,977	18	27.6	8	26.6	1	0.6	...	...	7	3
31	518,510	13	129,947	11	26.0	4	7.7	1	0.1	...	...	2	4
14	161,245	3	30,279	2	10.3	1	0.8	...	...	...	...	...	5
20	2,111,382	4	237,336	4	7.2	...	...	3	4.3	...	...	3	6
11	1,748,754	2	122,532	2	20.4	...	...	...	...	...	...	...	7
13	3,735,017	7	1,160,903	4	39.8	3	4.2	...	...	1	1	2	8
23	12,315,207	21	3,684,217	17	117.8	19	192.0	...	...	...	...	2	9

BY TYPE OF ORGANIZATION

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959									
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting	
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number		
202	21,032,299	110	5,726,914	78	271.1	60	282.8	6	6.5	2	2	19	1
10	78,749	10	75,749	4	6.1	7	20.0	1	1.5	1	1	1	2
67	425,094	61	410,626	44	66.1	29	65.1	2	0.7	...	...	10	3
125	20,528,456	39	5,240,539	30	198.9	24	197.7	3	4.3	1	1	8	4

BY YEAR OF ORGANIZATION

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959									
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting	
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number		
202	21,032,299	110	5,726,914	78	271.1	60	282.8	6	6.5	2	2	19	1
64	442,370	64	437,340	45	66.2	32	75.3	1	0.1	...	...	9	2
138	20,989,929	46	5,289,574	33	204.9	28	207.5	5	6.4	2	2	10	3

DRAINAGE OF AGRICULTURAL LANDS

County Table 1. - DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

Item and Census year		The State	Adair	Adams	Allamakee	Appanoose	Audubon	Benton	Black Hawk	Boone
AREA										
1	Approximate land area.....acres 1960...	35,860,480	364,160	272,640	408,960	334,720	286,720	459,520	362,880	366,720
2	Land in farms.....acres 1959...	33,830,950	353,983	260,160	357,225	303,805	277,950	441,685	329,100	349,566
3	Drainage projects.....cumber 1960...	249	1	1	2	1	5	1	4	2
4	..... 1950...	86	1	1	1	1	1	1	1	1
5	Total area in drainage projects ¹.....acres served 1960...	6,884,409	3,328	13,751	9,355	14,336	21,826	410	12,647	147,477
6	..... 1950...	6,734,863	3,328	13,751	9,355	14,336	15,622	410	10,322	144,691
7	Area not used for agriculture or not drained.....acres served 1960...	13,070	...	...	...	...	...	...	...	2,340
8	Net area drained and used for agriculture.....acres served 1960...	6,871,339	3,328	13,751	9,355	14,336	21,826	410	12,647	145,237
8	Drainage established before 1960.....acres served 1960...	6,748,104	3,328	13,751	9,355	14,336	21,186	410	10,322	142,451
10	Area added, 1950-1959.....acres served 1960...	123,235	...	...	...	...	640	...	2,325	2,786
11	Area served by two or more projects.....acres served 1960...	190,819	...	...	...	...	...	...	...	...
PROJECTS, 1960, BY TYPE OF ORGANIZATION										
12	Drains owned by one landowner.....number of projects...	10	...	...	...	...	1	...	...	...
13	.....acres served ² ...	11,428	...	...	...	...	640	...	...	...
14	Cooperative or mutual drains.....number of projects...	89	...	...	...	...	3	...	3	1
15	.....acres served ² ...	125,657	...	...	...	...	5,564	...	2,325	506
16	Legally organized public drains.....number of projects...	150	1	1	2	1	1	1	1	1
17	.....acres served ² ...	6,926,485	3,328	13,751	9,355	14,336	15,622	410	10,322	144,731
PROJECTS, 1960, BY YEAR STARTED										
18	1950-1958.....number of projects...	64	...	...	...	...	1	...	3	1
19	.....acres served ² ...	75,368	...	...	...	...	640	...	2,325	506
20	Prior to 1950.....number of projects...	185	1	1	2	1	4	1	1	1
21	.....acres served ² ...	6,988,202	3,328	13,751	9,355	14,336	21,186	410	10,322	144,731
DRAINAGE OPERATIONS, 1950-1959 ³										
22	Cost of drainage works and services.....projects reporting...	202	1	...	1	...	2	...	4	2
23	.....dollars...	21,032,299	3,385	...	17,499	...	8,412	...	28,427	130,875
24	New drainage works constructed, enlarged, or installed.....projects reporting...	110	...	...	1	...	2	...	3	2
25	.....dollars...	5,726,914	...	...	14,918	...	6,434	...	25,544	46,207
26	Open ditches.....projects reporting...	78	...	...	1	...	2	...	3	...
27	.....length, miles...	271.1	...	...	7.0	...	1.5	...	3.8	...
28	Tile or covered drains.....projects reporting...	60	...	...	...	...	...	...	2	2
29	.....length, miles...	282.8	...	...	...	...	...	...	3.8	6.7
30	Levees or dikes.....projects reporting...	6	...	...	...	...	...	...	...	...
31	.....length, miles...	6.5	...	...	...	...	...	...	...	...
32	Pumps.....projects reporting...	2	...	...	...	...	...	...	...	...
33	.....number of pumps...	2	...	...	...	...	...	...	...	...
34	Other (see text).....projects reporting...	19	...	...	...	...	1	...	...	1
35	Cost of maintenance, operation, repair, and administration.....projects reporting...	138	1	...	1	...	1	...	1	1
36	.....dollars...	15,305,385	3,385	...	2,581	...	1,978	...	2,883	84,668

¹Land served by two or more projects counted only once.²Acres served by two projects are included for each project. See text.³Includes projects taken over by another project prior to 1960. See text.

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

Item and Census year	Bremor	Buchanan	Buena Vista	Butler	Calhoun	Carroll	Cass	Cedar	Cerro Gordo
AREA									
1 Approximate land area.....acres 1950...	280,960	364,160	366,720	372,480	366,080	367,360	357,760	374,400	368,640
2 Land in farms.....acres 1959...	264,952	350,406	358,595	356,218	355,559	364,756	349,904	352,107	340,504
3 Drainage projects.....number 1960...	1	4	2	3	1	2	4	1	8
4 1950...	1	1	1	1	1	1	1	1	1
5 Total area in drainage projects ¹.....acres served 1960...	8,678	5,457	237,450	2,719	285,471	117,962	41,205	10,354	132,771
6 1950...	8,078	3,277	237,450	819	285,471	117,962	26,705	10,354	124,974
7 Area not used for agriculture or not drained.....acres served 1960...	...	...	...	...	...	1,080	1,200	...	1,760
8 Net area drained and used for agriculture.....acres served 1960...	8,678	5,457	237,450	2,719	285,471	116,882	40,005	10,354	131,011
9 Drainage established before 1950.....acres served 1960...	8,078	3,277	237,450	819	285,471	116,882	40,005	10,354	123,214
10 Area added, 1950-1959.....acres served 1960...	600	2,180	...	1,900	...	...	...	...	7,797
11 Area served by two or more projects.....acres served 1960...	...	...	520	...	...	73,143	...	...	360
PROJECTS, 1960, BY TYPE OF ORGANIZATION									
12 Drains owned by one landowner.....number of projects...	...	...	...	...	...	...	...	...	1
13 acres served ²...	...	...	...	...	...	...	...	...	1,100
14 Cooperative or mutual drains.....number of projects...	...	2	1	2	...	...	3	...	6
15 acres served ²...	...	2,180	520	1,900	...	...	14,000	...	6,016
16 Legally organized public drains.....number of projects...	1	2	1	1	1	2	1	1	1
17 acres served ² ...	8,678	3,277	237,450	819	285,471	190,025	26,005	10,354	124,255
PROJECTS, 1960, BY YEAR STARTED									
18 1950-1959.....number of projects...	...	2	1	2	...	...	...	...	6
19 acres served ²...	...	2,180	520	1,900	...	...	...	...	5,912
20 Prior to 1950.....number of projects...	1	2	1	1	1	2	4	1	2
21 acres served ² ...	8,678	3,277	237,450	819	285,471	190,025	40,005	10,354	125,459
DRAINAGE OPERATIONS, 1950-1959 ³									
22 Cost of drainage works and services.....projects reporting...	1	4	2	2	1	2	...	1	7
23 dollars...	6,533	5,687	731,628	5,095	742,312	648,064	...	7,866	163,185
24 New drainage works constructed, enlarged, or installed.....projects reporting...	1	2	2	2	...	...	...	...	7
25 dollars...	4,361	4,160	246,633	5,095	...	...	...	...	89,572
26 Open ditches.....projects reporting...	...	2	1	2	...	...	...	...	4
27 length, miles...	...	2.6	5.2	1.2	...	...	...	...	4.3
28 Tile or covered drains.....projects reporting...	1	...	2	1	...	...	...	...	6
29 length, miles...	0.8	...	38.5	0.7	...	...	...	...	8.1
30 Levees or dikes.....projects reporting...	...	...	...	...	...	...	...	...	...
31 length, miles...	...	...	...	...	...	...	...	...	...
32 Pumps.....projects reporting...	...	...	...	...	...	...	...	...	...
33 number of pumps...	...	...	...	...	...	...	...	...	...
34 Other (see text).....projects reporting...	...	...	...	1	...	...	...	...	3
35 Cost of maintenance, operation, repair, and administration.....projects reporting...	1	2	1	...	1	2	...	1	1
36 dollars...	2,172	1,527	484,995	...	742,312	648,064	...	7,866	73,613

¹Land served by two or more projects counted only once.²Acres served by two projects are included for each project. See text.³Includes projects taken over by another project prior to 1960. See text.

DRAINAGE OF AGRICULTURAL LANDS

County Table 1. --DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

Item and Census year	Chickasaw	Clay	Clinton	Crawford	Dallas	DeWitt	DeSoto	Delaware	Des Moines
AREA									
1 Approximate land area.....acres 1960...	323,200	365,440	444,800	458,240	382,080	325,760	339,200	366,720	261,760
2 Land in farms.....acres 1959...	306,559	343,215	418,064	439,662	354,014	294,228	301,269	351,162	235,442
3 Drainage projects.....number 1960...	1	2	4	1	1	2	1	1	3
4 1950...	...	1	1	1	1	1	1	1	1
5 Total area in drainage projects ¹.....acres served 1960...	347	139,535	86,220	40,632	91,234	32,131	19,001	1,575	35,041
6 1950...	...	132,987	82,176	40,632	90,588	32,131	19,001	1,575	32,768
7 Area not used for agriculture or not drained.....acres served 1960...	...	...	...	...	1,280	...	...	...	...
8 Net area drained and used for agriculture.....acres served 1960...	347	139,535	86,220	40,632	89,954	32,131	19,001	1,575	35,041
9 Drainage established before 1950.....acres served 1960...	...	132,987	82,176	40,632	89,308	32,131	19,001	1,575	35,041
10 Area added, 1950-1959.....acres served 1960...	347	6,548	4,044	...	646	...	...	...	...
11 Area served by two or more projects.....acres served 1960...	...	...	...	...	...	...	...	...	...
PROJECTS, 1960, BY TYPE OF ORGANIZATION									
12 Drains owned by one landowner.....number of projects...	...	...	...	...	...	...	...	...	...
13 acres served ²...	...	...	...	...	...	...	...	...	...
14 Cooperative or mutual drains.....number of projects...	1	1	3	...	...	...	...	1	...
15 acres served ² ...	347	660	4,044	...	...	...	...	1,575	...
16 Legally organized public drains.....number of projects...	...	1	1	1	1	2	1	...	3
17 acres served ²...	...	138,875	82,176	40,632	89,954	32,131	19,001	...	35,041
PROJECTS, 1960, BY YEAR STARTED									
18 1950-1959.....number of projects...	1	1	3	...	...	...	...	...	...
19 acres served ² ...	347	660	4,044	...	...	...	...	...	...
20 Prior to 1950.....number of projects...	...	1	1	1	1	2	1	1	3
21 acres served ²...	...	138,875	82,176	40,632	89,954	32,131	19,001	1,575	35,041
DRAINAGE OPERATIONS, 1950-1959 ³									
22 Cost of drainage works and services.....projects reporting...	1	2	4	1	1	2	...	...	3
23 dollars...	5,300	215,317	259,838	83,083	37,724	8,256	...	...	688,465
24 New drainage works constructed, enlarged, or installed.....projects reporting...	1	2	4	...	1	...	...	...	...
25 dollars...	5,300	168,485	84,618	...	29,069	...	...	...	...
26 Open ditches.....projects reporting...	...	2	3	...	...	...	...	...	...
27 length, miles...	...	5.2	11.1	...	...	...	...	...	...
28 Tile or covered drains.....projects reporting...	1	1	2	...	1	...	...	...	...
29 length, miles...	1.9	15.6	0.9	...	3.7	...	...	...	...
30 Levees or dikes.....projects reporting...	...	...	...	...	...	...	...	...	...
31 length, miles...	...	...	...	...	...	...	...	...	...
32 Pumps.....projects reporting...	...	...	...	...	...	...	...	...	...
33 number of pumps...	...	...	...	...	...	...	...	...	...
34 Other (see text).....projects reporting...	...	...	...	...	1	...	...	...	...
35 Cost of maintenance, operation, repair, and administration.....projects reporting...	...	1	1	1	1	2	...	...	3
36 dollars...	...	46,832	175,220	83,083	8,655	8,256	...	...	688,465

¹Land served by two or more projects counted only once.²Acres served by two projects are included for each project. See text.³Includes projects taken over by another project prior to 1960. See text.

County Table 1. —DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

Item and Census year	Dickinson	Dubuque	Emmet	Fayette	Floyd	Franklin	Prentiss	Greene	Grundy
AREA									
1 Approximate land area.....acres 1960...	240,640	389,120	252,800	465,920	321,920	375,040	334,720	364,160	320,640
2 Land in farms.....acres 1959...	237,704	343,185	240,384	447,708	304,207	363,684	311,881	354,548	319,596
3 Drainage projects.....number 1960...	1	1	1	3	3	17	11	3	14
4 1950...	1	1	1	1	1	1	1	1	1
5 Total area in drainage projects ¹.....acres served 1960...	127,379	1,475	185,699	4,683	41,808	166,236	111,446	156,389	22,478
6 1950...	126,979	1,475	184,650	3,113	39,538	159,517	111,446	153,139	10,748
7 Area not used for agriculture or not drained.....acres served 1960...	...	...	...	...	...	...	...	560	...
8 Net area drained and used for agriculture.....acres served 1960...	127,379	1,475	185,699	4,683	41,808	166,236	111,446	155,829	22,478
9 Drainage established before 1950.....acres served 1960...	126,979	1,475	184,650	3,113	39,538	160,207	111,446	152,979	11,282
10 Area added, 1950-1959.....acres served 1960...	400	...	1,049	1,570	2,270	6,029	...	3,250	11,196
11 Area served by two or more projects.....acres served 1960...	...	...	...	...	...	516	37,066	...	...
PROJECTS, 1960, BY TYPE OF ORGANIZATION									
12 Drains owned by one landowner.....number of projects...	...	...	...	...	...	...	...	1	3
13 acres served ²...	...	...	...	...	...	...	...	690	2,093
14 Cooperative or mutual drains.....number of projects...	...	...	...	2	2	3	4	...	10
15 acres served ²...	...	...	...	1,570	2,270	2,958	3,890	...	11,668
16 Legally organized public drains.....number of projects...	1	1	1	1	1	14	7	2	1
17 acres served ² ...	127,379	1,475	185,699	3,113	39,538	163,794	146,034	155,139	8,717
PROJECTS, 1960, BY YEAR STARTED									
18 1950-1959.....number of projects...	...	...	...	2	2	2	4	1	10
19 acres served ²...	...	...	...	1,570	2,270	2,268	3,890	690	10,492
20 Prior to 1950.....number of projects...	1	1	1	1	1	15	7	2	4
21 acres served ² ...	127,379	1,475	185,699	3,113	39,538	164,484	146,034	155,139	11,986
DRAINAGE OPERATIONS, 1950-1959 ³									
22 Cost of drainage works and services.....projects reporting...	1	1	1	3	3	17	10	3	13
23 dollars...	106,099	5,000	208,655	3,737	58,334	355,749	670,417	576,455	62,108
24 New drainage works constructed, enlarged, or installed.....projects reporting...	1	...	1	2	2	3	5	2	12
25 dollars...	15,000	...	10,083	2,652	9,005	97,570	50,787	137,829	61,807
26 Open ditches.....projects reporting...	...	...	1	2	2	1	5	1	4
27 length, miles...	...	...	1.5	1.5	1.6	0.2	26.3	1.8	2.9
28 Tile or covered drains.....projects reporting...	1	...	1	...	...	3	1	2	10
29 length, miles...	1.5	...	3.7	...	...	13.1	0.1	13.1	13.2
30 Levees or dikes.....projects reporting...	...	...	...	...	...	...	...	...	...
31 length, miles...	...	...	...	...	...	...	...	...	...
32 Pumps.....projects reporting...	...	...	...	...	...	...	...	...	...
33 number of pumps...	...	...	...	...	...	...	...	...	...
34 Other (see text).....projects reporting...	...	...	...	...	2	...	1	...	1
35 Cost of maintenance, operation, repair, and administration.....projects reporting...	1	1	1	1	1	15	6	2	1
36 dollars...	91,099	5,000	198,572	1,085	49,329	258,179	619,630	438,626	301

¹Land served by two or more projects counted only once.²Acres served by two projects are included for each project. See text.³Includes projects taken over by another project prior to 1960. See text.

DRAINAGE OF AGRICULTURAL LANDS

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

Item and Census year	Outhrie	Hamilton	Hancock	Hardin	Harrison	Howard	Humboldt	Iowa	Jackson
AREA									
1 Approximate land area.....acres 1960...	381,440	369,280	364,800	367,360	444,800	301,440	278,400	373,760	412,160
2 Land in farms.....acres 1959...	347,101	363,877	352,728	352,136	414,419	292,276	277,040	356,426	368,918
3 Drainage projects.....number 1960...	1	3	3	1	7	2	2	3	1
4 1950...	1	1	1	1	1	1	1	1	1
5 Total area in drainage projects ¹.....acres served 1960...	15,104	265,793	312,599	162,388	142,579	7,901	204,220	21,459	5,018
6 1950...	15,104	261,348	306,318	150,032	139,379	7,737	203,290	19,169	8,448
7 Area not used for agriculture or not drained.....acres served 1960...	...	500	...	...	...	...	850	1,200	...
8 Net area drained and used for agriculture.....acres served 1960...	15,104	265,293	312,599	162,388	142,579	7,901	203,370	20,259	5,018
9 Drainage established before 1950.....acres served 1960...	15,104	260,848	306,318	152,632	139,379	7,737	203,290	18,649	5,018
10 Area added, 1950-1959.....acres served 1960...	...	4,445	6,241	9,756	3,200	164	80	1,610	...
11 Area served by two or more projects.....acres served 1960...	...	2,660	700	...	1,200	...	500	...	...
PROJECTS, 1960, BY TYPE OF ORGANIZATION									
12 Drains owned by own landowner.....number of projects...	...	...	...	...	...	...	...	...	...
13 acres served ²...	...	...	...	...	...	...	...	...	...
14 Cooperative or mutual drains.....number of projects...	...	2	2	...	1	1	1	2	...
15 acres served ²...	...	2,660	1,278	...	1,200	164	500	1,863	...
16 Legally organized public drains.....number of projects...	1	1	1	1	6	1	1	1	1
17 acres served ² ...	15,104	265,293	311,981	162,388	142,579	7,737	203,370	18,396	5,018
PROJECTS, 1960, BY YEAR STARTED									
18 1950-1959.....number of projects...	...	...	1	...	1	1	...	...	...
19 acres served ²...	...	...	700	...	1,200	164	...	...	...
20 Prior to 1950.....number of projects...	1	3	2	1	6	1	2	3	1
21 acres served ² ...	15,104	267,953	312,599	162,388	142,579	7,737	203,870	20,259	5,018
DRAINAGE OPERATIONS, 1950-1959 ³									
22 Cost of drainage works and services.....projects reporting...	1	2	1	1	7	1	1	2	1
23 dollars...	14,547	587,419	767,695	271,012	1,720,901	4,798	441,971	66,337	17,892
24 New drainage works constructed, enlarged, or installed.....projects reporting...	...	2	1	1	3	...	1	1	...
25 dollars...	...	216,892	302,023	144,201	1,023,454	...	54,466	62,302	...
26 Open ditches.....projects reporting...	...	1	1	1	2	...	1	1	...
27 length, miles...	...	0.9	16.2	7.3	10.5	...	1.0	1.7	...
28 Ties or covered drains.....projects reporting...	...	1	1	1	...	...	1	...	...
29 length, miles...	...	26.1	13.8	19.5	...	...	3.4	...	...
30 Levees or dikes.....projects reporting...	...	...	...	...	...	...	...	1	...
31 length, miles...	...	...	...	...	...	...	...	1.5	...
32 Pumps.....projects reporting...	...	...	...	...	1	...	...	...	...
33 number of pumps...	...	...	...	...	1	...	...	...	...
34 Other (see text).....projects reporting...	...	1	1	...	...	...	...	1	...
35 Cost of maintenance, operation, repair, and administration.....projects reporting...	1	2	1	1	7	1	1	2	1
36 dollars...	14,547	370,527	465,672	126,811	697,447	4,798	387,505	4,035	17,892

¹Land served by two or more projects counted only once.²Acres served by two projects are included for each project. See text.³Includes projects taken over by another project prior to 1960. See text.

County Table 1.—DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

Item and Census year		Jasper	Jefferson	Johnson	Jones	Kossuth	Lee	Linn	Louis	Madison
AREA										
1	Approximate land area.....acres 1960...	471,040	279,040	394,880	374,400	626,560	334,080	456,320	257,920	361,600
2	Land in farms.....acres 1959...	442,029	255,595	354,829	351,133	612,854	294,451	405,781	235,354	343,784
3	Drainage projects.....number 1960...	2	1	1	1	8	3	1	8	1
4	1950...	1	1	1	1	1	1	1	1	1
5	Total area in drainage projects ¹.....acres served 1960...	55,992	9,339	13,824	1,311	476,591	26,180	4,864	53,320	1,040
6	1950...	66,816	9,339	13,824	1,311	475,136	13,824	4,864	52,330	1,040
7	Area not used for agriculture or not drained.....acres served 1960...	...	...	...	...	...	...	...	...	...
8	Net area drained and used for agriculture.....acres served 1960...	55,992	9,339	13,824	1,311	476,591	26,180	4,864	53,320	1,040
9	Drainage established before 1960.....acres served 1960...	55,992	9,339	13,824	1,311	474,816	26,180	4,864	51,970	1,040
10	Area added, 1950-1959.....acres served 1960...	...	...	...	...	1,775	...	...	1,350	...
11	Area served by two or more projects.....acres served 1960...	...	...	...	...	5,342	535	...	...	...
PROJECTS, 1960, BY TYPE OF ORGANIZATION										
12	Drains owned by one landowner.....number of projects...	...	...	...	...	1	1	...	...	...
13	acres served ²...	...	...	...	...	3,480	535	...	...	...
14	Cooperative or mutual drains.....number of projects...	1	...	...	...	5	...	...	1	...
15	acres served ² ...	3,000	...	...	...	4,917	...	...	1,350	...
16	Legally organized public drains.....number of projects...	1	1	1	1	2	2	1	7	1
17	acres served ² ...	52,992	9,339	13,824	1,311	473,536	26,180	4,864	51,970	1,040
PROJECTS, 1960, BY YEAR STARTED										
18	1950-1959.....number of projects...	...	...	...	...	3	...	...	1	...
19	acres served ²...	...	...	...	...	2,887	...	...	1,350	...
20	Prior to 1950.....number of projects...	2	1	1	1	5	3	1	7	1
21	acres served ² ...	55,992	9,339	13,824	1,311	479,046	26,715	4,864	51,970	1,040
DRAINAGE OPERATIONS, 1950-1959 ³										
22	Cost of drainage works and services.....projects reporting...	1	...	...	1	7	2	1	7	...
23	dollars...	6,098	...	...	1,489	605,138	243,800	2,795	385,637	...
24	New drainage works constructed, enlarged, or installed.....projects reporting...	...	...	...	...	5	2	...	2	...
25	dollars...	...	...	...	...	49,657	85,500	...	102,950	...
26	Open ditches.....projects reporting...	...	...	...	...	3	2	...	2	...
27	length, miles...	...	...	...	...	2.9	5.0	...	3.5	...
28	Tile or covered drains.....projects reporting...	...	...	...	...	4	...	...	...	...
29	length, miles...	...	...	...	...	5.6	...	...	...	...
30	Levees or dikes.....projects reporting...	...	...	...	...	...	2	...	1	...
31	length, miles...	...	...	...	...	...	1.8	...	2.5	...
32	Pumps.....projects reporting...	...	...	...	...	...	1	...	...	...
33	number of pumps...	...	...	...	...	...	1	...	...	...
34	Other (see text).....projects reporting...	...	...	...	...	1	...	...	1	...
35	Cost of maintenance, operation, repair, and administration.....projects reporting...	1	...	...	1	4	1	1	6	...
36	dollars...	6,098	...	...	1,489	555,481	158,300	2,795	282,687	...

¹Land served by two or more projects counted only once.²Acres served by two projects are included for each project. See text.³Includes projects taken over by another project prior to 1960. See text.

DRAINAGE OF AGRICULTURAL LANDS

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data.]

Item and Census year	Mahnaka	Marion	Marshall	Mills	Mitchell	Monona	Montgomery	Muscatine	O'Brien
AREA									
1 Approximate land area..... acres 1960...	366,080	363,520	367,360	285,440	298,880	446,080	270,080	280,960	368,000
2 Land in farms..... acres 1959...	354,292	334,963	353,779	265,606	283,982	418,442	266,481	257,629	357,178
3 Drainage projects..... number 1960...	3	2	2	13	2	4	2	2	1
4 1950...	1	1	1	1	1	1	1	1	1
5 Total area in drainage projects ¹ acres served 1960...	37,519	21,966	20,480	75,040	12,579	155,566	25,225	31,523	20,019
6 1950...	37,519	22,300	20,480	74,411	12,579	155,566	23,405	31,523	20,019
7 Area not used for agriculture or not drained..... acres served 1960...	...	...	...	...	...	...	...	...	...
8 Net area drained and used for agriculture..... acres served 1960...	37,519	21,966	20,480	75,040	12,579	155,566	25,225	31,523	20,019
9 Drainage established before 1950..... acres served 1960...	37,519	21,966	20,480	74,411	12,579	155,566	25,225	31,523	20,019
10 Area added, 1950-1959..... acres served 1960...	...	...	...	629	...	...	...	...	...
11 Area served by two or more projects..... acres served 1960...	...	...	...	6,574	...	45,364	...	...	...
PROJECTS, 1960, BY TYPE OF ORGANIZATION									
12 Drains owned by one landowner..... number of projects...	...	...	...	...	...	...	...	...	...
13 acres served ²...	...	...	...	...	...	...	...	...	...
14 Cooperative or mutual drains..... number of projects...	2	1	...	7	...	...	1	...	...
15 acres served ² ...	2,120	600	...	8,483	...	...	1,820	...	...
16 Legally organized public drains..... number of projects...	1	1	2	6	2	4	1	2	1
17 acres served ² ...	35,399	21,366	20,480	73,131	12,579	200,930	23,405	31,523	20,019
PROJECTS, 1960, BY YEAR STARTED									
18 1850-1959..... number of projects...	...	...	...	4	...	...	...	...	...
19 acres served ²...	...	...	...	5,403	...	...	...	...	...
20 Prior to 1950..... number of projects...	3	2	2	9	2	4	2	2	1
21 acres served ² ...	37,519	21,966	20,480	76,211	12,579	200,930	25,225	31,523	20,019
DRAINAGE OPERATIONS, 1950-1959 ³									
22 Cost of drainage works and services..... projects reporting...	1	...	2	13	2	4	...	2	1
23 dollars...	13,867	...	585	506,986	1,269	2,957,767	...	203,157	9,481
24 New drainage works constructed, enlarged, or installed..... projects reporting...	...	...	...	6	...	1	...	...	...
25 dollars...	...	...	...	35,502	...	1,184,818	...	...	...
26 Open ditches..... projects reporting...	...	...	...	6	...	1	...	...	...
27 length, miles...	...	...	...	16.3	...	20.0	...	...	...
28 Tile or covered drains..... projects reporting...	...	...	...	...	...	...	...	...	...
29 length, miles...	...	...	...	...	...	...	...	...	...
30 Levees or dikes..... projects reporting...	...	...	...	2	...	...	...	...	...
31 length, miles...	...	...	...	0.7	...	...	...	...	...
32 Pumps..... projects reporting...	...	...	...	...	...	...	...	...	...
33 number of pumps...	...	...	...	...	...	...	...	...	...
34 Other (see text)..... projects reporting...	...	...	...	...	...	...	...	...	...
35 Cost of maintenance, operation, repair, and administration..... projects reporting...	1	...	2	11	2	4	...	2	1
36 dollars...	13,867	...	585	471,484	1,269	1,772,949	...	203,157	9,481

¹Land served by two or more projects counted only once.²Acres served by two projects are included for each project. See text.³Includes projects taken over by another project prior to 1960. See text.

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data.]

Item and Census year	Osceola	Page	Palo Alto	Plymouth	Pocahontas	Polk	Pottawatt- mie	Poweshick	Ringgold
AREA									
1 Approximate land area.....acres 1960...	254,080	342,400	359,040	552,320	371,200	380,160	616,960	376,960	344,320
2 Land in farms.....acres 1969.....	251,279	331,593	353,597	535,809	358,421	297,321	568,626	364,398	331,318
3 Drainage projects..... number 1960.....	2	3	6	1	3	1	5	3	1
4 1950.....	1	1	1	1	1	1	1	1	1
5 Total area in drainage projects ¹ acres served 1960.....	83,871	49,152	253,715	6,502	314,220	62,796	102,760	16,608	16,043
6 1950.....	83,680	49,152	236,593	6,502	306,460	62,796	102,440	17,749	16,043
7 Area not used for agriculture or not drained..... acres served 1960.....	...	...	...	...	...	1,760	...	...	...
8 Net area drained and used for agriculture..... acres served 1960.....	83,871	49,152	253,715	6,502	314,220	61,036	102,760	16,608	16,043
9 Drainage established before 1950..... acres served 1960.....	83,339	49,152	236,593	6,502	309,265	61,036	102,440	16,608	16,043
10 Area added, 1950-1959..... acres served 1960.....	532	...	17,122	...	4,955	...	320	...	...
11 Area served by two or more projects..... acres served 1960.....	2,035	...	4,470	...	900	...	6,760	...	...
PROJECTS, 1960, BY TYPE OF ORGANIZATION									
12 Drains owned by one landowner..... number of projects.....	...	...	...	...	...	...	...	...	...
13 acres served ².....	...	...	...	...	...	...	...	...	...
14 Cooperative or mutual drains..... number of projects.....	1	...	5	...	2	...	...	2	...
15 acres served ²	2,035	...	10,830	...	1,300	...	...	9,749	...
16 Legally organized public drains..... number of projects.....	1	3	1	1	1	1	5	1	1
17 acres served ²	83,871	49,152	247,355	6,502	313,820	61,036	109,520	6,859	16,043
PROJECTS, 1960, BY YEAR STARTED									
18 1950-1959..... number of projects.....	1	...	5	...	...	...	...	...	...
19 acres served ²	2,035	...	10,830	...	...	...	...	...	...
20 Prior to 1950..... number of projects.....	1	3	1	1	3	1	5	3	1
21 acres served ²	83,871	49,152	247,355	6,502	315,120	61,036	109,520	16,608	16,043
DRAINAGE OPERATIONS, 1950-1959 ³									
22 Cost of drainage works and services..... projects reporting.....	2	3	6	1	1	1	5	1	...
23 dollars.....	42,118	247,496	597,270	5,256	1,317,738	63,226	399,170	30	...
24 New drainage works constructed, enlarged, or installed..... projects reporting.....	2	2	6	...	1	...	2	...	...
25 dollars.....	8,323	123,461	239,094	...	400,012	...	9,551	...	...
26 Open ditches..... projects reporting.....	1	2	4	...	1	...	1	...	...
27 length, miles.....	3.0	16.3	24.4	...	27.9	...	4.7	...	...
28 Tile or covered drains..... projects reporting.....	1	...	3	...	1	...	1	...	...
29 length, miles.....	0.4	...	11.5	...	16.1	...	0.7	...	...
30 Levees or dikes..... projects reporting.....	...	...	...	...	...	...	...	...	...
31 length, miles.....	...	...	...	...	...	...	...	...	...
32 Pumps..... projects reporting.....	...	...	...	...	...	...	...	...	...
33 number of pumps.....	...	...	...	...	...	...	...	...	...
34 Other (see text)..... projects reporting.....	...	...	1	...	...	...	1	...	...
35 Cost of maintenance, operation, repair, and administration..... projects reporting.....	1	3	1	1	1	1	5	1	...
36 dollars.....	33,795	124,035	318,176	5,256	917,726	63,226	389,619	30	...

¹Land served by two or more projects counted only once.²Acres served by two projects are included for each project. See text.³Includes projects taken over by another project prior to 1960. See text.

DRAINAGE OF AGRICULTURAL LANDS

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data.]

Item and Census year	Sac	Scott	Shelby	Story	Tama	Taylor	Van Buren	Wapello	Warren
AREA									
1 Approximate land area.....acres 1960...	369,920	289,920	375,680	363,520	460,800	337,920	311,680	279,680	366,080
2 Land in farms.....acres 1959...	358,707	258,024	363,940	348,341	438,238	330,398	281,416	248,356	337,612
3 Drainage projects.....number 1960...	5	1	1	2	1	1	1	5	1
4 1950...	1	1	1	1	1	1	1	1	1
5 Total area in drainage projects ¹.....acres served 1960...	121,412	1,638	43,090	168,757	2,611	14,757	13,198	8,645	48,469
6 1950...	117,842	1,638	43,090	168,757	2,611	14,757	13,198	9,696	48,469
7 Area not used for agriculture or not drained.....acres served 1960...	...	...	...	...	...	...	...	...	...
8 Net area drained and used for agriculture.....acres served 1960...	121,412	1,638	43,090	168,757	2,611	14,757	13,198	8,645	48,469
9 Drainage established before 1950.....acres served 1960...	117,842	1,638	43,090	168,757	2,611	14,757	13,198	8,645	48,469
10 Area added, 1950-1959.....acres served 1960...	3,570	...	...	...	...	...	...	...	...
11 Area served by two or more projects.....acres served 1960...	...	...	...	...	...	...	...	...	...
PROJECTS, 1960, BY TYPE OF ORGANIZATION									
12 Drains owned by one landowner.....number of projects...	1	...	...	...	...	...	...	...	...
13 acres served ² ...	1,490	...	...	...	...	...	...	...	...
14 Cooperative or mutual drains.....number of projects...	3	...	...	...	...	...	...	...	...
15 acres served ² ...	2,080	...	...	...	...	...	...	...	...
16 Legally organized public drains.....number of projects...	1	1	1	2	1	1	1	5	1
17 acres served ² ...	117,842	1,638	43,090	168,757	2,611	14,757	13,198	8,645	48,469
PROJECTS, 1960, BY YEAR STARTED									
18 1950-1959.....number of projects...	4	...	...	...	...	...	...	...	...
19 acres served ² ...	3,570	...	...	...	...	...	...	...	...
20 Prior to 1950.....number of projects...	1	1	1	2	1	1	1	5	1
21 acres served ² ...	117,842	1,638	43,090	168,757	2,611	14,757	13,198	8,645	48,469
DRAINAGE OPERATIONS, 1950-1959 ³									
22 Cost of drainage works and services.....projects reporting...	5	1	...	2	1	...	...	4	...
23 dollars...	681,347	4,000	...	62,619	4,201	...	...	8,754	...
24 New drainage works constructed, enlarged, or installed.....projects reporting...	5	...	...	...	...	...	...	...	...
25 dollars...	27,770	...	...	...	...	...	...	...	...
26 Open ditches.....projects reporting...	4	...	...	...	...	...	...	...	...
27 length, miles...	9.5	...	...	...	...	...	...	...	...
28 Tile or covered drains.....projects reporting...	2	...	...	...	...	...	...	...	...
29 length, miles...	3.0	...	...	...	...	...	...	...	...
30 Levees or dikes.....projects reporting...	...	...	...	...	...	...	...	...	...
31 length, miles...	...	...	...	...	...	...	...	...	...
32 Pumps.....projects reporting...	...	...	...	...	...	...	...	...	...
33 number of pumps...	...	...	...	...	...	...	...	...	...
34 Other (see text).....projects reporting...	...	...	...	...	...	...	...	...	...
35 Cost of maintenance, operation, repair, and administration.....projects reporting...	1	1	...	2	1	...	...	4	...
36 dollars...	653,577	4,000	...	62,619	4,201	...	...	8,754	...

¹Land served by two or more projects counted only once.²Acres served by two projects are included for each project. See text.³Includes projects taken over by another project prior to 1960. See text.

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

Item and Census year	Washington	Wayne	Webster	Winebag	Woodbury	Worth	Wright
AREA							
1 Approximate land area.....acres 1940...	363,520	340,480	459,520	256,640	557,440	256,000	369,280
2 Land in farms.....acres 1960...	339,969	317,926	437,017	250,977	502,527	249,285	362,797
3 Drainage projects.....number 1940...	2	1	3	13	3	4	1
4 1950...	1	1	1	1	1	1	1
5 Total area in drainage projects ¹.....acres served 1940...	3,755	13,000	320,660	213,765	101,253	129,507	266,320
6 1950...	3,755	13,000	319,318	209,818	101,253	124,647	265,120
7 Area not used for agriculture or not drained.....acres served 1940...	...	...	640	...	...	...	...
8 Net area drained and used for agriculture.....acres served 1940...	3,755	13,000	320,020	213,765	101,253	129,507	266,320
9 Drainage established before 1950.....acres served 1940...	3,755	13,000	318,118	209,818	101,253	124,647	265,120
10 Area added, 1950-1959.....acres served 1940...	...	...	1,902	3,947	...	4,860	1,200
11 Area served by two or more projects.....acres served 1940...	1,000	...	...	274	...	900	...
PROJECTS, 1940, BY TYPE OF ORGANIZATION							
12 Drains owned by one landowner.....number of projects...	...	...	...	...	...	1	...
13 acres served ²...	...	...	...	...	...	1,400	...
14 Cooperative or mutual drains.....number of projects...	1	...	2	2	...	2	...
15 acres served ³ ...	1,000	...	1,100	1,767	...	3,848	...
16 Legally organized public drains.....number of projects...	1	1	1	11	3	1	1
17 acres served ³ ...	3,755	13,000	318,920	212,272	101,253	125,159	266,320
PROJECTS, 1940, BY YEAR STARTED							
18 1950-1959.....number of projects...	...	...	...	2	...	3	...
19 acres served ³...	...	...	...	1,767	...	5,248	...
20 Prior to 1950.....number of projects...	2	1	3	11	3	1	1
21 acres served ³ ...	4,755	13,000	320,020	212,272	101,253	125,159	266,320
DRAINAGE OPERATIONS, 1950-1959 ⁴							
22 Cost of drainage works and services.....projects reporting...	1	...	1	12	3	4	1
23 dollars...	4,500	...	856,297	510,328	918,904	249,944	424,955
24 New drainage works constructed, enlarged, or installed.....projects reporting...	1	...	1	4	...	4	1
25 dollars...	2,900	...	150,241	182,137	...	54,066	152,465
26 Open ditches.....projects reporting...	1	...	1	4	...	3	1
27 length, miles...	1.3	...	0.6	8.6	...	3.6	8.2
28 Tile or covered drains.....projects reporting...	1	...	1	2	...	2	1
29 length, miles...	1.8	...	13.9	22.8	...	12.2	6.6
30 Levees or dikes.....projects reporting...	...	...	...	...	...	...	...
31 length, miles...	...	...	...	...	...	...	...
32 Pumps.....projects reporting...	...	...	...	...	...	...	...
33 number of pumps...	...	...	...	...	...	...	...
34 Other (see text).....projects reporting...	...	...	...	1	...	...	...
35 Cost of maintenance, operation, repair, and administration.....projects reporting...	1	...	1	10	3	1	1
36 dollars...	1,600	...	706,056	328,191	918,904	195,878	272,490

¹Land served by two or more projects counted only once.²Acres served by two projects are included for each project. See text.³Includes projects taken over by another project prior to 1960. See text.

State Table 1.—DRAINAGE PROJECTS—NUMBER, AREA, COST, AND WORKS, 1920 TO 1960

(See text for comparability of data.)

Item	1960 Census	1950 Census	1940 Census	1930 Census	1920 Census
AREA					
Approximate land area.....acres...	52,510,720	52,549,120	52,552,320	52,335,360	52,335,360
Land in farms.....acres...	50,152,870	48,611,366	48,173,635	46,975,647	45,425,179
Drainage projects.....number...	103	121	88	NA	NA
Total area in drainage projects.....acres served...	402,330	356,988	258,113	257,169	93,856
Area not used for agriculture or not drained.....acres served...	29,220	NA	NA	NA	NA
Net area drained and used for agriculture.....acres served...	373,110	NA	¹ 250,455	¹ 253,845	NA
Drainage established 10 years or more before Census date.....acres served...	309,135	NA	NA	NA	NA
Drainage established within 10 years of Census date.....acres served...	63,975	NA	NA	NA	NA
Area served by two or more projects.....acres served...	4,873	6,353	833	557	...
PROJECTS BY TYPE OF ORGANIZATION					
Drains owned by one landowner.....number of projects...	5	(²)	NA	NA	NA
.....acres served...	3,660	(²)	7,754	5,550	2,200
Cooperative or mutual drains.....number of projects...	14	(²)	...	...	...
.....acres served...	23,427	(²)	...	...	...
Legally organized public drains.....number of projects...	84	² 84	NA	NA	NA
.....acres served...	350,896	² 355,089	250,359	251,619	91,656
PROJECTS BY YEAR STARTED					
Started 10 years or more before Census date.....number of projects...	76	² 70	NA	NA	NA
.....acres served...	309,211	² 306,688	244,173	214,416	46,277
Started within 10 years of Census date.....number of projects...	27	² 14	NA	NA	NA
.....acres served...	68,772	² 48,401	13,940	42,753	47,579
OPERATIONS, 10-YEAR PERIOD PRECEDING CENSUS DATE					
Cost of drainage works and services.....projects reporting...	96	² 60	NA	NA	NA
.....dollars...	1,665,416	1,116,786	NA	NA	NA
New drainage works constructed, enlarged, or installed.....projects reporting...	45	³ 10	NA	NA	NA
.....cost, dollars...	850,795	² 279,036	NA	NA	NA
Open ditches.....projects reporting...	44	9	NA	NA	NA
.....length, miles...	168.0	48	NA	NA	NA
Tile or covered drains.....projects reporting...	1	...	NA	NA	NA
.....length, miles...	0.1	...	NA	NA	NA
Levees or dikes.....projects reporting...	13	7	NA	NA	NA
.....length, miles...	33.4	58	NA	NA	NA
Pumps.....projects reporting...	...	NA	NA	NA	NA
.....number of pumps...	...	NA	NA	NA	NA
Other (see text).....projects reporting...	2	NA	NA	NA	NA
Cost of maintenance, operation, repair, and administration.....projects reporting...	76	NA	NA	NA	NA
.....dollars...	814,621	837,750	NA	NA	NA
STATUS ON CENSUS DATE					
Capital investment.....dollars...	NA	NA	3,733,919	2,701,082	936,508
Physical works:					
Open ditches.....length, miles...	NA	NA	381.4	324.7	138.4
Tile drains.....length, miles...	NA	NA	210.5	212.1	213.0
Levees and dikes.....length, miles...	NA	NA	278.3	227.0	165.1
Pumping units.....number of units...	NA	(²)	4	2	NA

NA Not available.

¹Not fully comparable. See text.²1950 figures exclude 37 projects and 1,899 acres in "irrigation enterprises."³Cost of new works for lands not previously drained.

DRAINAGE OF AGRICULTURAL LANDS

State Table 2.—DRAINAGE

Size of project (Based on area of agricultural land in project)	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
		Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
				Projects reporting	Acres	Projects reporting	Acres
1 All projects.....	103	377,983	9,746	81	313,908	26	64,075
2 500 to 999 acres.....	26	20,036	3,273	13	10,319	13	9,717
3 1,000 to 1,999 acres.....	23	34,597	2,233	20	29,787	3	4,810
4 2,000 to 4,999 acres.....	24	70,415	1,400	22	59,065	4	11,350
5 5,000 to 9,999 acres.....	22	159,065	2,020	19	128,867	5	26,198
6 10,000 to 19,999 acres.....	8	97,870	820	7	85,870	1	12,000
7 20,000 to 49,999 acres.....	...	...	...	...	...	...	...
8 50,000 to 99,999 acres.....	...	...	...	...	...	...	...
9 100,000 or more acres.....	...	...	...	...	...	...	...

State Table 3.—DRAINAGE PROJECTS, 1960,

Type of organization	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
		Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
				Projects reporting	Acres	Projects reporting	Acres
1 All projects.....	103	377,983	9,746	81	313,908	26	64,075
2 Drains owned by one landowner.....	5	3,660	...	...	...	5	3,660
3 Cooperative or mutual drains.....	14	23,427	1,660	4	5,060	10	18,367
4 Legally organized public drains.....	84	350,896	8,086	77	308,848	11	42,048

¹Includes projects taken over by another project prior to 1960. See text.

State Table 4.—DRAINAGE PROJECTS, 1960,

Year of organization	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
		Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
				Projects reporting	Acres	Projects reporting	Acres
1 All projects.....	103	377,983	9,746	81	313,908	26	64,075
2 1950-1959.....	27	68,772	1,920	5	7,687	24	61,085
3 Prior to 1950.....	76	309,211	7,826	76	306,221	2	2,990

¹Includes projects taken over by another project prior to 1960. See text.

PROJECTS, 1960, BY SIZE

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959								
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	
96	1,665,416	45	850,795	44	168.0	1	0.1	13	33.4	...	...	2
26	90,481	17	62,513	17	39.1	...	...	2	1.4	...	...	...
21	144,274	5	53,900	5	19.5	...	...	2	2.3	...	...	...
22	350,755	9	125,591	9	36.2	...	...	3	9.4	...	...	1
20	637,243	11	429,272	11	35.2	1	0.1	4	11.0	...	...	1
7	442,663	3	179,519	2	38.0	...	...	2	9.3	...	...	...
...
...
...

BY TYPE OF ORGANIZATION

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959								
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	
96	1,665,416	45	850,795	44	168.0	1	0.1	13	33.4	...	...	2
5	25,300	5	18,500	5	15.2	...	...	1	0.4	...	...	...
116	97,595	12	78,295	12	35.4	...	...	2	2.3	...	...	...
75	1,542,521	28	754,000	27	117.4	1	0.1	10	30.7	...	...	2

BY YEAR OF ORGANIZATION

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959								
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	
96	1,665,416	45	850,795	44	168.0	1	0.1	13	33.4	...	...	2
131	485,909	29	443,540	29	105.7	1	0.1	8	20.6	...	...	2
65	1,179,507	16	407,255	15	62.3	...	...	5	12.8	...	...	...

DRAINAGE OF AGRICULTURAL LANDS

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

Item and Census year		The State	Albion	Brown	Chase	Chautauque	Clay	Cloud	Coffey
AREA									
1	Approximate land area.....acres 1960...	52,510,720	269,440	369,920	495,360	414,080	421,120	455,040	419,840
2	Land in farms.....acres 1950...	50,152,870	257,740	358,783	490,673	399,565	415,736	424,135	386,980
3	Drainage projects.....number 1960...	103	3	1	1	1	2	1	4
4	1950...	121	3	1	1	1	1	...	...
5	Total area in drainage projects ¹.....acres served 1960...	402,330	17,986	5,129	1,720	7,742	6,480	2,005	3,920
6	1950...	356,988	16,241	5,129	1,720	7,742	1,700	...	...
7	Area not used for agriculture or not drained.....acres served 1960...	29,220	...	...	...	...	...	...	...
8	Net area drained and used for agriculture.....acres served 1960...	373,110	17,986	5,129	1,720	7,742	6,480	2,005	3,920
9	Drainage established before 1950.....acres served 1960...	309,135	17,986	5,129	1,720	7,742	1,700	2,005	...
10	Area added, 1950-1959.....acres served 1960...	63,975	...	...	...	...	4,780	...	3,920
11	Area served by two or more projects.....acres served 1960...	4,873	...	...	...	...	...	...	...
PROJECTS, 1960, BY TYPE OF ORGANIZATION									
12	Drains owned by one landowner.....number of projects...	5	...	...	...	...	...	...	2
13	acres served ² ...	3,660	...	...	...	...	...	...	1,600
14	Cooperative or mutual drains.....number of projects...	14	...	...	...	...	...	...	2
15	acres served ² ...	23,427	...	...	...	...	...	...	2,320
16	Legally organized public drains.....number of projects...	84	3	1	1	1	2	1	...
17	acres served ² ...	350,896	17,986	5,129	1,720	7,742	6,480	2,005	...
PROJECTS, 1960, BY YEAR STARTED									
18	1950-1959.....number of projects...	27	...	...	...	...	1	1	4
19	acres served ² ...	68,772	...	...	...	...	4,780	2,005	3,920
20	Prior to 1950.....number of projects...	76	3	1	1	1	1	...	...
21	acres served ² ...	309,211	17,986	5,129	1,720	7,742	1,700	...	...
DRAINAGE OPERATIONS, 1950-1959 ³									
22	Cost of drainage works and services.....projects reporting...	96	1	1	...	1	2	1	4
23	dollars...	1,665,416	75,000	2,307	...	8,759	33,844	2,048	23,800
24	New drainage works constructed, enlarged, or installed.....projects reporting...	45	...	...	...	...	1	1	3
25	dollars...	850,795	...	...	...	...	27,876	1,182	12,500
26	Open ditches.....projects reporting...	44	...	...	...	...	1	1	3
27	length, miles...	168.0	...	...	...	...	4.0	0.5	13.1
28	Tile or covered drains.....projects reporting...	1	...	...	...	...	...	...	...
29	length, miles...	0.1	...	...	...	...	...	...	...
30	Levees or dikes.....projects reporting...	13	...	...	...	...	...	1	...
31	length, miles...	33.4	...	...	...	...	...	3.0	...
32	Pumps.....projects reporting...	...	...	...	...	...	...	...	...
33	number of pumps...	...	...	...	...	...	...	...	...
34	Other (see text).....projects reporting...	2	...	...	...	...	1	...	...
35	Cost of maintenance, operation, repair, and administration.....projects reporting...	76	1	1	...	1	2	1	3
36	dollars...	814,621	75,000	2,307	...	8,759	5,968	866	11,300

¹Land served by two or more projects counted only once.²Acres served by two projects are included for each project. See text.³Includes projects taken over by another project prior to 1960. See text.

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

Item and Census year	Cowley	Doniphan	Douglas	Finney	Ford	Franklin	Harvey	Jackson
AREA								
1 Approximate land area.....acres 1960...	727,040	242,560	299,520	833,280	1,693,120	369,280	1,345,600	419,840
2 Land in farms.....acres 1959...	695,318	234,838	277,698	776,519	1,762,812	344,178	1,347,255	379,150
3 Drainage projects.....number 1960...	2	5	4	2	1	4	5	3
4 .....1950...	3	3	9	1	1	3	3	3
5 Total area in drainage projects ¹.....acres served 1960...	3,120	16,907	16,039	18,520	700	15,260	7,020	9,340
6 .....1950...	4,120	12,040	27,559	25	10	12,680	5,280	9,638
7 Area not used for agriculture or not drained.....acres served 1960...	...	...	...	...	...	...	...	...
8 Net area drained and used for agriculture.....acres served 1960...	3,120	16,907	16,039	18,520	700	15,260	7,020	9,340
9 Drainage established before 1950.....acres served 1960...	3,120	16,907	16,039	...	...	14,860	5,920	9,340
10 Area added, 1950-1959.....acres served 1960...	...	...	...	18,520	700	400	1,100	...
11 Area served by two or more projects.....acres served 1960...	...	1,400	...	...	...	820	...	...
PROJECTS, 1960, BY TYPE OF ORGANIZATION								
12 Drains owned by one landowner.....number of projects...	...	...	...	...	...	...	...	...
13 .....acres served ²...	...	...	...	...	...	...	...	...
14 Cooperative or mutual drains.....number of projects...	1	...	...	...	1	2	...	...
15 .....acres served ² ...	1,500	...	...	...	700	1,220	...	...
16 Legally organized public drains.....number of projects...	1	5	4	2	...	2	5	3
17 .....acres served ² ...	1,620	18,307	16,039	18,520	...	14,860	7,020	9,340
PROJECTS, 1960, BY YEAR STARTED								
18 1950-1959.....number of projects...	...	...	...	2	1	1	2	...
19 .....acres served ²...	...	...	...	18,520	700	400	1,740	...
20 Prior to 1950.....number of projects...	2	5	4	...	...	3	3	3
21 .....acres served ² ...	3,120	18,307	16,039	...	...	15,680	5,280	9,340
DRAINAGE OPERATIONS, 1950-1959 ⁴								
22 Cost of drainage works and services.....projects reporting...	1	4	4	2	1	3	3	1
23 .....dollars...	2,000	82,476	23,397	84,621	2,400	11,700	35,210	2,071
24 New drainage works constructed, enlarged, or installed.....projects reporting...	...	1	1	2	1	(⁵)	2	...
25 .....dollars...	...	1,000	1,600	84,621	2,400	(⁵)	33,050	...
26 Open ditches.....projects reporting...	...	1	1	2	1	(⁵)	2	...
27 .....length, miles...	...	0.6	0.7	23.0	1.2	(⁵)	4.3	...
28 Tile or covered drains.....projects reporting...	...	...	...	...	...	...	...	...
29 .....length, miles...	...	...	...	...	...	...	...	...
30 Levees or dikes.....projects reporting...	...	...	...	...	...	...	1	...
31 .....length, miles...	...	...	...	...	...	...	2.0	...
32 Pumps.....projects reporting...	...	...	...	...	...	...	...	...
33 .....number of pumps...	...	...	...	...	...	...	...	...
34 Other (see text).....projects reporting...	...	...	...	...	...	...	...	...
35 Cost of maintenance, operation, repair, and administration.....projects reporting...	1	4	4	...	...	(⁵)	2	1
36 .....dollars...	2,000	81,476	21,797	...	...	(⁵)	2,160	2,071

¹The excess of farm acreage over approximate land area is due to the fact that the entire acreage of a farm is tabulated as in the county in which the headquarters is located, even though a part of the farm may be situated in an adjoining county.

²Land served by two or more projects counted only once.

³Acres served by two projects are included for each project. See text.

⁴Includes projects taken over by another project prior to 1960. See text.

⁵Included in State total only.

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

Item and Census year	Jefferson	Labette	Lincoln	McPherson	Marion	Meade	Miami	Montgomery
AREA								
1 Approximate land area.....acres 1980...	351,360	418,560	464,640	572,800	¹ 613,760	² 624,640	378,240	415,360
2 Land in farms.....acres 1955.....	314,650	399,600	453,196	¹ 595,373	² 624,939	² 628,334	341,730	361,050
3 Drainage projects..... number 1960.....	7	1	1	8	1	1	3	5
4 1950.....	9	1	...	4	1	...	...	5
5 Total area in drainage projects ² acres served 1980.....	22,580	3,880	8,800	18,870	5,060	2,400	3,207	15,887
6 1950.....	16,582	3,880	...	14,970	5,060	...	...	17,047
7 Area not used for agriculture or not drained..... acres served 1980.....	...	...	...	...	...	...	...	...
8 Net area drained and used for agriculture..... acres served 1980.....	22,580	3,880	8,800	18,870	5,060	2,400	3,207	15,887
9 Drainage established before 1950..... acres served 1980.....	16,872	3,880	...	17,890	5,060	...	...	15,887
10 Area added, 1950-1959..... acres served 1960.....	5,708	...	8,800	980	...	2,400	3,207	...
11 Area served by two or more projects..... acres served 1960.....	1,080	...	...	...	...	...	...	640
PROJECTS, 1960, BY TYPE OF ORGANIZATION								
12 Drains owned by one landowner..... number of projects.....	...	...	...	...	...	...	1	...
13 acres served ³.....	...	...	...	...	...	...	960	...
14 Cooperative or mutual drains..... number of projects.....	...	...	1	1	...	...	2	1
15 acres served ³.....	...	...	8,800	2,100	...	...	2,247	640
16 Legally organized public drains..... number of projects.....	7	1	...	7	1	1	...	4
17 acres served ³	23,660	3,880	...	16,770	5,060	2,400	...	15,887
PROJECTS, 1950, BY YEAR STARTED								
18 1950-1956..... number of projects.....	1	...	1	3	...	1	3	1
19 acres served ³	6,300	...	8,800	3,080	...	2,400	3,207	640
20 Prior to 1950..... number of projects.....	6	1	...	5	1	...	...	4
21 acres served ³	17,360	3,880	...	15,790	5,060	...	...	15,887
DRAINAGE OPERATIONS, 1950-1959 ⁴								
22 Cost of drainage works and services.....projects reporting...	12	1	(⁵)	8	1	1	3	3
23 dollars.....	122,032	5,000	(⁵)	49,930	26,474	18,578	46,275	8,910
24 New drainage works constructed, enlarged, or installed.....projects reporting...	8	...	(⁵)	4	1	1	3	(⁵)
25 dollars.....	79,093	...	(⁵)	20,150	4,000	15,828	42,675	(⁵)
26 Open ditches.....projects reporting...	8	...	(⁵)	4	1	1	3	(⁵)
27 length, miles.....	26.8	...	(⁵)	4.8	0.8	4.5	10.8	(⁵)
28 Ties or covered drains.....projects reporting...	1	...	...	...	...	...	...	...
29 length, miles.....	0.1	...	...	...	...	...	...	...
30 Levees or dikes.....projects reporting...	1	...	...	1	1	1	2	...
31 length, miles.....	1.0	...	...	0.8	0.5	0.6	1.7	...
32 Pumps.....projects reporting...	...	...	...	...	...	...	...	...
33 number of pumps.....	...	...	...	...	...	...	...	...
34 Other (see text).....projects reporting...	1	...	...	...	...	...	...	...
35 Cost of maintenance, operation, repair, and administration.....projects reporting...	6	1	...	8	1	1	2	(⁵)
36 dollars.....	42,939	5,000	...	29,780	22,474	2,750	3,600	(⁵)

¹The excess of farm acreage over approximate land area is due to the fact that the entire acreage of a farm is tabulated as in the county in which the headquarters is located, even though a part of the farm may be situated in an adjoining county.

²Land served by two or more projects counted only once.

³Acres served by two projects are included for each project. See text.

⁴Includes projects taken over by another project prior to 1960. See text.

⁵Included in State total only.

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data.]

Item and Census year		Nemaha	Neosho	Osage	Ottawa	Pottawatomie	Reno	Republic	Rice
AREA									
1	Approximate land area.....acres 1960...	453,760	375,680	461,440	462,720	544,000	803,200	460,160	1,461,440
2	Land in farms.....acres 1959...	449,355	339,784	454,898	419,706	466,236	788,940	442,324	1,466,857
3	Drainage projects.....number 1960...	1	16	1	1	2	4	2	1
4	.....1950...	1	16	1	...	2	1	2	1
5	Total area in drainage projects ¹.....acres served 1960...	2,859	19,247	7,012	700	10,920	15,520	4,727	1,600
6	.....1950...	2,859	20,247	7,012	...	10,920	3,840	4,727	320
7	Area not used for agriculture or not drained.....acres served 1960...	...	...	...	...	...	...	...	...
8	Net area drained and used for agriculture.....acres served 1960...	2,859	19,247	7,012	700	10,920	15,520	4,727	1,600
9	Drainage established before 1950.....acres served 1960...	2,859	19,247	7,012	...	10,920	13,840	4,727	320
10	Area added, 1950-1959.....acres served 1960...	...	...	...	700	...	1,680	...	1,280
11	Area served by two or more projects.....acres served 1960...	...	833	...	...	...	...	...	...
PROJECTS, 1960, BY TYPE OF ORGANIZATION									
12	Drains owned by one landowner.....number of projects...	...	...	...	...	...	...	...	...
13	.....acres served ²...	...	...	...	...	...	...	...	...
14	Cooperative or mutual drains.....number of projects...	...	...	...	1	...	...	...	...
15	.....acres served ²...	...	...	...	700	...	...	...	...
16	Legally organized public drains.....number of projects...	1	16	1	...	2	4	2	1
17	.....acres served ² ...	2,859	20,080	7,012	...	10,920	15,520	4,727	1,600
PROJECTS, 1960, BY YEAR STARTED									
18	1950-1959.....number of projects...	...	...	...	1	...	2	...	...
19	.....acres served ³...	...	...	...	700	...	1,680	...	...
20	Prior to 1950.....number of projects...	1	16	1	...	2	2	2	1
21	.....acres served ³ ...	2,859	20,080	7,012	...	10,920	13,840	4,727	1,600
DRAINAGE OPERATIONS, 1950-1959 ⁴									
22	Cost of drainage works and services.....projects reporting...	...	15	...	(⁵)	2	4	2	1
23	.....dollars...	...	35,135	...	(⁵)	59,621	55,865	5,453	15,000
24	New drainage works constructed, enlarged, or installed.....projects reporting...	...	2	...	(⁵)	1	3	...	1
25	.....dollars...	...	7,700	...	(⁵)	2,000	43,350	...	12,000
26	Open ditches.....projects reporting...	...	2	...	(⁵)	...	3	...	1
27	.....length, miles...	...	5.5	...	(⁵)	...	8.5	...	3.5
28	Tile or covered drains.....projects reporting...	...	...	...	...	...	...	...	...
29	.....length, miles...	...	...	...	...	...	...	...	...
30	Levees or dikes.....projects reporting...	...	...	...	...	1	2	...	...
31	.....length, miles...	...	...	...	...	0.7	4.0	...	...
32	Pumps.....projects reporting...	...	...	...	...	...	...	...	...
33	.....number of pumps...	...	...	...	...	...	...	...	...
34	Other (see text).....projects reporting...	...	...	...	...	...	...	...	...
35	Cost of maintenance, operation, repair, and administration.....projects reporting...	...	15	...	...	2	3	2	1
36	.....dollars...	...	27,435	...	...	57,621	12,515	5,453	3,000

¹The excess of farm acreage over approximate land area is due to the fact that the entire acreage of a farm is tabulated as in the county in which the headquarters is located, even though a part of the farm may be situated in an adjoining county.

²Land served by two or more projects counted only once.

³Acres served by two projects are included for each project. See text.

⁴Includes projects taken over by another project prior to 1960. See text.

⁵Included in State total only.

DRAINAGE OF AGRICULTURAL LANDS

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

Item and Census year	Riley	Saline	Sedgwick	Shawnee	Stafford	Sumner	Wabaunsee	All other counties ¹
AREA								
1 Approximate land area.....acres 1960...	399,360	460,800	639,360	348,800	508,160	756,480	² 506,240	6,108,160
2 Land in farms.....acres 1959...	338,172	415,160	601,019	312,253	505,183	741,083	² 510,389	6,097,906
3 Drainage projects.....number 1960...	1	2	8	4	4	2	1	34
4 1950...	3	3	6	5	...	2	2	...
5 Total area in drainage projects ³.....acres served 1960...	760	6,583	63,090	35,840	2,700	17,700	500	...
6 1950...	792	7,350	55,584	41,240	...	17,700	2,300	30,674
7 Area not used for agriculture or not drained.....acres served 1960...	...	...	10,220	7,000	...	12,000	...	...
8 Net area drained and used for agriculture.....acres served 1960...	760	6,583	52,870	28,840	2,700	5,700	500	...
9 Drainage established before 1950.....acres served 1960...	760	6,583	45,770	28,840	...	5,700	500	...
10 Area added, 1950-1959.....acres served 1960...	...	...	7,100	...	2,700	...	...	...
11 Area served by two or more projects.....acres served 1960...	...	...	...	...	100	...	...	...
PROJECTS, 1960, BY TYPE OF ORGANIZATION								
12 Drains owned by one landowner.....number of projects...	...	...	...	...	2	...	...	...
13 acres served ⁴...	...	...	...	...	1,100	...	...	...
14 Cooperative or mutual drains.....number of projects...	...	...	1	...	2	...	...	...
15 acres served ⁴...	...	...	1,500	...	1,700	...	...	...
16 Legally organized public drains.....number of projects...	1	2	7	4	...	2	1	...
17 acres served ⁴ ...	760	6,583	51,370	28,840	...	5,700	500	...
PROJECTS, 1960, BY YEAR STARTED								
18 1950-1959.....number of projects...	...	...	2	...	4	...	...	...
19 acres served ⁴...	...	...	7,100	...	2,800	...	...	...
20 Prior to 1950.....number of projects...	1	2	6	4	...	2	1	...
21 acres served ⁴ ...	760	6,583	45,770	28,840	...	5,700	500	...
DRAINAGE OPERATIONS, 1950-1959 ⁵								
22 Cost of drainage works and services.....projects reporting...	...	2	8	4	4	2	1	...
23 dollars...	...	4,706	437,481	346,550	10,000	5,000	8,273	...
24 New drainage works constructed, enlarged, or installed.....projects reporting...	...	...	3	4	4	...	1	...
25 dollars...	...	...	220,470	209,300	10,000	...	500	...
26 Open ditches.....projects reporting...	...	...	3	3	4	...	...	...
27 length, miles...	...	...	32.5	4.2	7.6	...	...	...
28 Tile or covered drains.....projects reporting...	...	...	...	...	...	...	...	...
29 length, miles...	...	...	...	...	...	...	...	...
30 Levees or dikes.....projects reporting...	...	...	3	2	...	...	1	...
31 length, miles...	...	...	13.5	5.5	...	...	0.1	...
32 Pumps.....projects reporting...	...	...	...	...	...	...	...	...
33 number of pumps...	...	...	...	...	...	...	...	...
34 Other (see text).....projects reporting...	...	...	...	...	...	...	...	...
35 Cost of maintenance, operation, repair, and administration.....projects reporting...	...	2	7	4	...	2	1	...
36 dollars...	...	4,706	217,011	137,250	...	5,000	7,773	...

¹Includes Barton, Greenwood, Haskell, Kearny, Lyon, Ness, Osborne, Pawnee, Scott, Sheridan, and Trego counties.²The excess of farm acreage over approximate land area is due to the fact that the entire acreage of a farm is tabulated as in the county in which the headquarters is located, even though a part of the farm may be situated in an adjoining county.³Land served by two or more projects counted only once.⁴Acres served by two projects are included for each project. See text.⁵Includes projects taken over by another project prior to 1960. See text.

State Table 1.—DRAINAGE PROJECTS—NUMBER, AREA, COST, AND WORKS, 1920 TO 1960

[See text for comparability of data.]

Item	1960 Census	1950 Census	1940 Census	1930 Census	1920 Census
AREA					
Approximate land area.....acres...	25,512,320	25,512,960	25,699,760	25,715,840	25,715,840
Land in farms.....acres...	17,030,675	19,441,774	20,294,016	19,927,286	21,612,772
Drainage projects.....number...	28	18	144	NA	NA
Total area in drainage projects.....acres served...	945,515	959,892	465,270	585,625	358,480
Area not used for agriculture or not drained.....acres served...	56,716	NA	NA	NA	NA
Net area drained and used for agriculture.....acres served...	888,799	NA	2464,963	2515,101	NA
Drainage established 10 years or more before Census date.....acres served...	882,753	NA	NA	NA	NA
Drainage established within 10 years of Census date.....acres served...	6,046	NA	NA	NA	NA
Area served by two or more projects.....acres served...	2,000	NA	50,347	40,783	...
PROJECTS BY TYPE OF ORGANIZATION					
Drains owned by one landowner.....number of projects...	1	(3)	NA	NA	NA
.....acres served...	2,000	(3)	3,150	3,500	6,400
Cooperative or mutual drains.....number of projects...	10	(3)	...	...	...
.....acres served...	8,660	(3)	...	...	...
Legally organized public drains.....number of projects...	17	318	NA	NA	NA
.....acres served...	880,139	399,892	462,120	582,125	352,080
PROJECTS BY YEAR STARTED					
Started 10 years or more before Census date.....number of projects...	20	NA	NA	NA	NA
.....acres served...	884,153	NA	446,686	433,155	4112,937
Started within 10 years of Census date.....number of projects...	8	NA	NA	NA	NA
.....acres served...	6,646	NA	18,584	152,470	4243,743
OPERATIONS, 10-YEAR PERIOD PRECEDING CENSUS DATE					
Cost of drainage works and services.....projects reporting...	17	14	NA	NA	NA
.....dollars...	897,753	711,162	NA	NA	NA
New drainage works constructed, enlarged, or installed.....projects reporting...	10	5	NA	NA	NA
.....cost, dollars...	97,291	344,832	NA	NA	NA
Open ditches.....projects reporting...	10	4	NA	NA	NA
.....length, miles...	28.4	22	NA	NA	NA
Tile or covered drains.....projects reporting...	1	1	NA	NA	NA
.....length, miles...	20.0	1	NA	NA	NA
Levees or dikes.....projects reporting...	...	...	NA	NA	NA
.....length, miles...	...	...	NA	NA	NA
Pumps.....projects reporting...	...	NA	NA	NA	NA
.....number of pumps...	...	NA	NA	NA	NA
Other (see text).....projects reporting...	...	NA	NA	NA	NA
Cost of maintenance, operation, repair, and administration.....projects reporting...	10	13	NA	NA	NA
.....dollars...	800,462	666,330	NA	NA	NA
STATUS ON CENSUS DATE					
Capital investment.....dollars...	NA	NA	4,947,994	5,357,633	1,521,725
Physical works:					
Open ditches.....length, miles...	NA	NA	1,231.8	1,204.8	664.5
Tile drains.....length, miles...	NA	NA	2.0	71.0	86.2
Levees and dikes.....length, miles...	NA	NA	...	...	0.2
Pumping units.....number of units...	NA	NA	...	...	...

NA Not available.

¹In 1940, each county drain was counted as a separate project. See text.²Not fully comparable. See text.³In 1950, all projects included with county drains. See text.⁴In 1920, figures exclude 1,800 acres for which date of organization was not reported.⁵Cost of new works for lands not previously drained.

DRAINAGE OF AGRICULTURAL LANDS

State Table 2.—DRAINAGE

	Size of project (Based on area of agricultural land in project)	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
			Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
					Projects reporting	Acres	Projects reporting	Acres
1	All projects.....	28	890,799	4,000	21	884,753	7	6,046
2	500 to 999 acres.....	7	4,566	...	2	1,270	5	3,296
3	1,000 to 1,999 acres.....	6	8,683	...	4	5,933	2	2,750
4	2,000 to 4,999 acres.....	1	2,000	2,000	1	2,000	...	...
5	5,000 to 9,999 acres.....	2	14,400	...	2	14,400	...	...
6	10,000 to 19,999 acres.....	2	29,191	...	2	29,191	...	...
7	20,000 to 49,999 acres.....	2	53,371	...	2	53,371	...	...
8	50,000 to 99,999 acres.....	5	335,569	2,000	5	335,569	...	...
9	100,000 or more acres.....	3	443,019	...	3	443,019	...	...

State Table 3.—DRAINAGE PROJECTS, 1960,

	Type of organization	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
			Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
					Projects reporting	Acres	Projects reporting	Acres
1	All projects.....	28	890,799	4,000	21	884,753	7	6,046
2	Drains owned by one landowner.....	1	2,000	2,000	1	2,000	...	...
3	Cooperative or mutual drains.....	10	8,680	...	3	2,614	7	6,046
4	Legally organized public drains.....	17	880,139	2,000	17	880,139	...	...

State Table 4.—DRAINAGE PROJECTS, 1960,

	Year of organization	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
			Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
					Projects reporting	Acres	Projects reporting	Acres
1	All projects.....	28	890,799	4,000	21	884,753	7	6,046
2	1950-1959.....	8	6,846	...	1	600	7	6,046
3	Prior to 1950.....	20	884,153	4,000	20	884,153	...	...

PROJECTS, 1960, BY SIZE

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959								
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	
17	897,753	10	97,291	10	28.4	1	20.0	...	...	...	...	...
6	34,483	6	34,383	6	15.3	...	...	...	...	...	...	...
2	14,600	2	14,600	2	9.0	...	...	...	...	...	...	...
1	45,000	1	35,000	1	1.1	1	20.0	...	...	...	...	...
1	565	...	...	...	...	...	...	...	...	...	...	...
1	3,500	...	...	...	...	...	...	...	...	...	...	...
...
3	469,787	...	...	...	...	...	...	...	...	...	...	...
3	329,818	1	13,308	1	3.0	...	...	...	...	...	...	...

BY TYPE OF ORGANIZATION

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959								
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	
17	897,753	10	97,291	10	28.4	1	20.0	...	...	...	...	...
1	45,000	1	35,000	1	1.1	1	20.0	...	...	...	...	...
8	49,083	8	48,983	8	24.3	...	...	...	...	...	...	...
8	803,670	1	13,308	1	3.0	...	...	...	...	...	...	...

BY YEAR OF ORGANIZATION

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959								
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	
17	897,753	10	97,291	10	28.4	1	20.0	...	...	...	...	...
8	49,083	8	48,983	8	24.3	...	...	...	...	...	...	...
9	848,670	2	48,308	2	4.1	1	20.0	...	...	...	...	...

DRAINAGE OF AGRICULTURAL LANDS

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

Item and Census year		The State	Ballard	Butler	Carlisle	Daviess	Fulton	Graves	Greenup
AREA									
1	Approximate land area.....acres 1960...	25,512,320	165,760	283,520	125,440	298,240	131,200	358,400	224,000
2	Land in farms.....acres 1950...	17,030,675	123,221	161,430	90,547	244,234	111,438	256,907	116,479
3	Drainage projects.....number 1960...	28	1	1	1	1	2	2	2
4	.....1950...	18	...	1	...	1	1	1	...
5	Total area in drainage projects ¹.....acres served 1960...	945,515	2,873	6,720	6,670	203,200	2,300	21,720	1,246
6	.....1950...	959,892	...	6,720	...	203,200	384	16,335	...
7	Area not used for agriculture or not drained.....acres served 1960...	56,716	...	...	...	4,000	...	...	...
8	Net area drained and used for agriculture.....acres served 1960...	888,799	2,873	6,720	6,670	199,200	2,300	21,720	1,246
9	Drainage established before 1950.....acres served 1960...	882,753	2,873	6,720	6,670	199,200	...	21,720	...
10	Area added, 1950-1959.....acres served 1960...	6,046	...	...	...	...	2,300	...	1,246
11	Area served by two or more projects.....acres served 1960...	2,000	...	...	...	...	...	...	...
PROJECTS, 1960, BY TYPE OF ORGANIZATION									
12	Drains owned by one landowner.....number of projects...	1	...	...	...	...	...	...	...
13	.....acres served ² ...	2,000	...	...	...	...	...	...	...
14	Cooperative or mutual drains.....number of projects...	10	...	...	...	...	2	...	2
15	.....acres served ² ...	8,660	...	...	...	...	2,300	...	1,246
16	Legally organized public drains.....number of projects...	17	1	1	1	1	...	2	...
17	.....acres served ² ...	880,139	2,873	6,720	6,670	199,200	...	21,720	...
PROJECTS, 1960, BY YEAR STARTED									
18	1950-1959.....number of projects...	8	...	...	...	...	2	...	2
19	.....acres served ² ...	6,646	...	...	...	...	2,300	...	1,246
20	Prior to 1950.....number of projects...	20	1	1	1	1	...	2	...
21	.....acres served ² ...	884,153	2,873	6,720	6,670	199,200	...	21,720	...
DRAINAGE OPERATIONS, 1950-1959 ³									
22	Cost of drainage works and services.....projects reporting...	17	...	...	...	1	(⁴)	1	2
23	.....dollars...	897,753	...	...	...	231,010	(⁴)	3,500	8,433
24	New drainage works constructed, enlarged, or installed.....projects reporting...	10	...	...	...	...	(⁴)	...	2
25	.....dollars...	97,291	...	...	...	...	(⁴)	...	8,433
26	Open ditches.....projects reporting...	10	...	...	...	...	(⁴)	...	2
27	.....length, miles...	28.4	...	...	...	...	(⁴)	...	3.2
28	Tile or covered drains.....projects reporting...	1	...	...	...	...	...	...	...
29	.....length, miles...	20.0	...	...	...	...	...	...	...
30	Levees or dikes.....projects reporting...	...	...	...	...	...	...	...	...
31	.....length, miles...	...	...	...	...	...	...	...	...
32	Pumps.....projects reporting...	...	...	...	...	...	...	...	...
33	.....number of pumps...	...	...	...	...	...	...	...	...
34	Other (see text).....projects reporting...	...	...	...	...	...	...	...	...
35	Cost of maintenance, operation, repair, and administration.....projects reporting...	10	...	...	...	1	...	1	...
36	.....dollars...	800,462	...	...	...	231,010	...	3,500	...

¹Land served by two or more projects counted only once.²Acres served by two projects are included for each project. See text.³Includes projects taken over by another project prior to 1960. See text.⁴Included in State total only.

County Table 1.—DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

Item and Census year	Hancock	Henderson	Hickman	Hopkins	Jefferson	McCracken	McLean	Marshall
AREA								
1 Approximate land area.....acres 1950...	119,680	281,600	158,720	355,200	240,000	160,640	164,480	193,920
2 Land in farms.....acres 1959...	79,935	238,540	120,762	201,870	98,383	87,032	125,251	112,067
3 Drainage projects..... number 1960...	1	2	1	3	1	2	1	1
4 1950...	1	1	1	1	1	1	1	1
5 Total area in drainage projects ¹ acres served 1960...	33,280	99,776	7,680	18,256	99,264	6,936	58,432	1,024
6 1950...	33,280	101,376	7,680	16,256	99,264	1,773	58,432	1,024
7 Area not used for agriculture or not drained..... acres served 1960...	...	...	...	3,400	38,016	...	2,600	...
8 Net area drained and used for agriculture..... acres served 1960...	33,280	99,776	7,680	14,856	61,248	6,936	55,832	1,024
9 Drainage established before 1950..... acres served 1960...	33,280	99,776	7,680	12,856	61,248	6,936	55,832	1,024
10 Area added, 1950-1959..... acres served 1960...	...	...	...	2,000	...	...	...	...
11 Area served by two or more projects..... acres served 1960...	...	2,000	...	...	...	...	...	...
PROJECTS, 1960, BY TYPE OF ORGANIZATION								
12 Drains owned by one landowner..... number of projects...	...	1	...	...	...	...	...	...
13 acres served ²...	...	2,000	...	...	...	...	...	...
14 Cooperative or mutual drains..... number of projects...	...	...	...	2	...	...	...	...
15 acres served ²...	...	...	...	2,000	...	...	...	...
16 Legally organized public drains..... number of projects...	1	1	1	1	1	2	1	1
17 acres served ² ...	33,280	99,776	7,680	12,856	61,248	6,936	55,832	1,024
PROJECTS, 1960, BY YEAR STARTED								
18 1950-1959..... number of projects...	...	...	...	2	...	...	...	...
19 acres served ²...	...	...	...	2,000	...	...	...	...
20 Prior to 1950..... number of projects...	1	2	1	1	1	2	1	1
21 acres served ² ...	33,280	101,776	7,680	12,856	61,248	6,936	55,832	1,024
DRAINAGE OPERATIONS, 1950-1959 ³								
22 Cost of drainage works and services.....projects reporting...	...	(⁴)	1	2	1	...	1	...
23 dollars...	...	(⁴)	565	4,990	428,120	...	5,900	...
24 New drainage works constructed, enlarged, or installed.....projects reporting...	...	(⁴)	...	2	...	...	...	...
25 dollars...	...	(⁴)	...	4,950	...	...	...	...
26 Open ditches.....projects reporting...	...	(⁴)	...	2	...	...	...	...
27 length, miles...	...	(⁴)	...	8.0	...	...	...	...
28 Tile or covered drains.....projects reporting...	...	(⁴)	...	...	...	...	...	...
29 length, miles...	...	(⁴)	...	...	...	...	...	...
30 Levees or dikes.....projects reporting...	...	...	...	...	...	...	...	...
31 length, miles...	...	...	...	...	...	...	...	...
32 Pumps.....projects reporting...	...	...	...	...	...	...	...	...
33 number of pumps...	...	...	...	...	...	...	...	...
34 Other (see text).....projects reporting...	...	...	...	...	...	...	...	...
35 Cost of maintenance, operation, repair, and administration.....projects reporting...	...	(⁴)	1	...	1	...	1	...
36 dollars...	...	(⁴)	565	...	428,120	...	5,900	...

¹Land served by two or more projects counted only once.²Acres served by two projects are included for each project. See text.³Includes projects taken over by another project prior to 1960. See text.⁴Included in State total only.

DRAINAGE OF AGRICULTURAL LANDS

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

Item and Census year		Mahlenberg	Ohio	Spencer	Trigg	Union	Warren	Webster
AREA								
1	Approximate land area.....acres 1960...	308,480	381,440	123,520	292,480	219,520	349,440	216,960
2	Land in farms.....acres 1959...	125,350	198,622	117,598	167,590	167,555	296,567	153,130
3	Drainage projects..... number 1960...	1	2	1	1	1	1	2
4	..... 1960...	1	1	1	...	1	1	1
5	Total area in drainage projects ¹ acres served 1960...	59,457	65,856	1,792	500	136,116	1,344	111,073
6	..... 1960...	59,457	65,856	1,792	...	166,116	1,344	119,603
7	Area not used for agriculture or not drained..... acres served 1960...	6,000	...	...	...	...	...	2,700
8	Net area drained and used for agriculture..... acres served 1960...	53,457	65,856	1,792	500	136,116	1,344	108,373
9	Drainage established before 1950..... acres served 1960...	53,457	65,856	1,792	...	136,116	1,344	108,373
10	Area added, 1950-1959..... acres served 1960...	...	...	...	500	...	...	...
11	Area served by two or more projects..... acres served 1960...	...	...	...	...	...	...	...
PROJECTS, 1960, BY TYPE OF ORGANIZATION								
12	Drains owned by one landowner..... number of projects...	...	...	...	...	...	...	...
13	..... acres served ²...	...	...	...	...	...	...	...
14	Cooperative or mutual drains..... number of projects...	...	1	...	1	...	1	1
15	..... acres served ²...	...	600	...	500	...	1,344	670
16	Legally organized public drains..... number of projects...	1	1	1	...	1	...	1
17	..... acres served ² ...	53,457	65,256	1,792	...	136,116	...	107,703
PROJECTS, 1960, BY YEAR STARTED								
18	1950-1959..... number of projects...	...	1	...	1	...	...	...
19	..... acres served ²...	...	600	...	500	...	...	...
20	Prior to 1950..... number of projects...	1	1	1	...	1	1	2
21	..... acres served ² ...	53,457	65,256	1,792	...	136,116	1,344	108,373
DRAINAGE OPERATIONS, 1950-1959 ²								
22	Cost of drainage works and services.....projects reporting...	...	1	...	1	1	...	1
23	..... dollars...	...	1,600	...	10,000	58,808	...	40,000
24	New drainage works constructed, enlarged, or installed.....projects reporting...	...	1	...	1	1	...	...
25	..... dollars...	...	1,500	...	10,000	13,308	...	...
26	Open ditches.....projects reporting...	...	1	...	1	1	...	...
27	..... length, miles...	...	1.0	...	3.1	3.0	...	...
28	Tile or covered drains.....projects reporting...	...	...	...	...	...	...	...
29	..... length, miles...	...	...	...	...	...	...	...
30	Levees or dikes.....projects reporting...	...	...	...	...	...	...	...
31	..... length, miles...	...	...	...	...	...	...	...
32	Pumps.....projects reporting...	...	...	...	...	...	...	...
33	..... number of pumps...	...	...	...	...	...	...	...
34	Other (see text).....projects reporting...	...	...	...	...	...	...	...
35	Cost of maintenance, operation, repair, and administration.....projects reporting...	...	1	...	...	1	...	1
36	..... dollars...	...	100	...	...	45,500	...	40,000

¹Land served by two or more projects counted only once.²Acres served by two projects are included for each project. See text.³Includes projects taken over by another project prior to 1960. See text.

State Table 1.—DRAINAGE PROJECTS—NUMBER, AREA, COST, AND WORKS, 1920 TO 1960

[See text for comparability of data.]

Item	1960 Census	1950 Census	1940 Census	1930 Census	1920 Census
AREA					
Approximate land area..... acres.....	28,867,840	28,903,680	28,913,280	29,061,760	29,061,760
Land in farms..... acres.....	10,347,328	11,202,278	9,996,108	9,355,437	10,019,822
Drainage projects..... number.....	915	922	495	NA	NA
Total area in drainage projects..... acres served.....	9,089,516	12,161,665	4,219,624	3,655,483	2,266,328
Area not used for agriculture or not drained..... acres served.....	1,978,892	NA	NA	NA	NA
Net area drained and used for agriculture..... acres served.....	7,110,624	NA	² 2,512,250	² 2,571,531	NA
Drainage established 10 years or more before Census date..... acres served.....	6,144,937	NA	NA	NA	NA
Drainage established within 10 years of Census date..... acres served.....	965,687	NA	NA	NA	NA
Area served by two or more projects..... acres served.....	1,255,460	509,987	483,850	437,630	75,706
PROJECTS BY TYPE OF ORGANIZATION					
Drains owned by one landowner..... number of projects.....	526	² 199	NA	NA	NA
..... acres served.....	810,903	² 344,239	² 412,303	402,496	36,463
Cooperative or mutual drains..... number of projects.....	235	² 95	...	...	...
..... acres served.....	309,784	² 128,197	...	...	...
Legally organized public drains..... number of projects.....	154	² 117	NA	NA	NA
..... acres served.....	7,337,112	² 11,605,479	² 3,795,721	3,252,987	2,229,865
PROJECTS BY YEAR STARTED					
Started 10 years or more before Census date..... number of projects.....	608	² 94	NA	NA	NA
..... acres served.....	6,936,683	² 1,727,948	² 3,664,122	2,701,069	1,183,536
Started within 10 years of Census date..... number of projects.....	307	² 317	NA	NA	NA
..... acres served.....	1,521,116	² 10,349,967	555,502	954,414	1,082,792
OPERATIONS, 10-YEAR PERIOD PRECEDING CENSUS DATE					
Cost of drainage works and services..... projects reporting.....	753	² 392	NA	NA	NA
..... dollars.....	45,796,344	16,652,384	NA	NA	NA
New drainage works constructed, enlarged, or installed..... projects reporting.....	576	² 142	NA	NA	NA
..... cost, dollars.....	24,432,591	² 5,316,026	NA	NA	NA
Open ditches..... projects reporting.....	562	141	NA	NA	NA
..... length, miles.....	8,202.7	2,116	NA	NA	NA
Tile or covered drains..... projects reporting.....	1	...	NA	NA	NA
..... length, miles.....	0.1	...	NA	NA	NA
Levees or dikes..... projects reporting.....	34	12	NA	NA	NA
..... length, miles.....	215.2	166	NA	NA	NA
Pumps..... projects reporting.....	45	NA	NA	NA	NA
..... number of pumps.....	91	NA	NA	NA	NA
Other (see text)..... projects reporting.....	16	NA	NA	NA	NA
Cost of maintenance, operation, repair, and administration..... projects reporting.....	490	NA	NA	NA	NA
..... dollars.....	21,363,753	11,336,358	NA	NA	NA
STATUS ON CENSUS DATE					
Capital investment..... dollars.....	NA	NA	23,361,758	20,752,645	9,021,991
Physical works:					
Open ditches..... length, miles.....	NA	NA	7,105.5	7,701.2	1,771.6
Tile drains..... length, miles.....	NA	NA	6.0	2.0	0.2
Levees and dikes..... length, miles.....	NA	NA	624.4	576.3	440.7
Pumping units..... number of units.....	NA	² 102	59	52	71

NA Not available.

¹Not fully comparable. See text.²1950 figures exclude 511 projects and 83,750 acres in "irrigation enterprises"; 1940 figures exclude 634 projects and 11,600 acres in "irrigation enterprises."³Cost of new works for lands not previously drained.

State Table 2.—DRAINAGE

	Size of project (Based on area of agricultural land in project)	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
			Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
					Projects reporting	Acres	Projects reporting	Acres
1	All projects.....	915	8,457,799	2,602,635	835	7,425,144	116	1,032,655
2	500 to 999 acres.....	373	261,601	222,648	337	235,582	41	26,019
3	1,000 to 1,999 acres.....	271	373,294	298,830	241	330,512	36	42,782
4	2,000 to 4,999 acres.....	126	361,443	256,476	117	326,851	16	34,592
5	5,000 to 9,999 acres.....	28	203,467	69,580	27	184,138	3	19,329
6	10,000 to 19,999 acres.....	43	600,013	180,205	42	567,833	5	32,130
7	20,000 to 49,999 acres.....	36	1,111,624	425,471	34	876,938	7	234,686
8	50,000 to 99,999 acres.....	16	1,046,309	223,134	16	815,289	4	231,020
9	100,000 or more acres.....	22	4,500,048	926,291	21	4,087,951	4	412,097

¹Includes projects taken over by another project prior to 1960. See text.

State Table 3.—DRAINAGE PROJECTS, 1960.

	Type of organization	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
			Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
					Projects reporting	Acres	Projects reporting	Acres
1	All projects.....	915	8,457,799	2,602,635	835	7,425,144	116	1,032,655
2	Drains owned by one landowner.....	526	810,503	633,143	475	742,851	67	68,052
3	Cooperative or mutual drains.....	235	309,784	220,164	213	244,786	26	64,998
4	Legally organized public drains.....	154	7,337,112	1,749,328	147	6,437,507	23	899,605

State Table 4.—DRAINAGE PROJECTS, 1960.

	Year of organization	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
			Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
					Projects reporting	Acres	Projects reporting	Acres
1	All projects.....	915	8,457,799	2,602,635	835	7,425,144	116	1,032,655
2	1950-1959.....	307	1,521,116	364,792	227	574,051	99	947,065
3	Prior to 1950.....	608	6,936,683	2,237,843	608	6,851,093	17	85,590

PROJECTS, 1960, BY SIZE

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959									
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting	
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number		
753	45,796,344	576	24,432,591	562	8,202.7	1	0.1	34	215.2	45	91	16	
296	1,925,457	242	940,607	238	1,302.3	...	...	7	14.3	11	18	2
220	3,913,099	180	1,842,346	175	1,539.3	1	0.1	10	52.7	15	27	5	
104	4,187,877	77	1,791,698	74	811.4	...	...	8	62.3	12	23	5
19	2,385,162	10	870,357	9	31.7	...	...	2	5.8	1	1	1
41	2,799,965	16	1,161,952	15	245.5	...	...	3	44.0	5	21	1
35	3,481,899	16	2,705,867	16	473.5	...	...	2	28.0	...	...	1
15	5,649,731	13	3,441,239	13	799.6	...	...	1	0.1	1	1	...
123	21,453,194	22	11,678,525	22	2,999.4	...	...	1	8.0	...	...	1

BY TYPE OF ORGANIZATION

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959								
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	
753	45,796,344	576	24,432,591	562	8,202.7	1	0.1	34	215.2	45	91	16
448	8,115,096	358	2,749,601	352	3,329.3	...	...	29	174.3	34	79	4
167	755,852	142	608,543	142	412.6	...	...	...	...	1	2	1
138	36,925,396	76	21,074,447	68	4,460.8	1	0.1	5	40.9	10	10	11

BY YEAR OF ORGANIZATION

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959								
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	
753	45,796,344	576	24,432,591	562	8,202.7	1	0.1	34	215.2	45	91	16
306	10,912,946	299	8,412,567	295	3,120.8	1	0.1	9	72.0	10	12	7
447	34,883,398	277	16,020,024	267	5,081.9	...	...	25	143.2	35	79	9

DRAINAGE OF AGRICULTURAL LANDS

Parish Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

	Item and Census year	The State	Acadia	Allen	Ascension	Assumption	Avoyelles	Bossier	Caddo
AREA									
1	Approximate land area.....acres 1960...	28,867,840	423,680	496,000	192,000	228,480	528,640	536,960	568,320
2	Land in farms.....acres 1959...	10,347,328	338,824	149,993	89,755	94,831	229,613	232,423	268,970
3	Drainage projects.....number 1960...	915	47	13	22	29	32	31	26
4	1950...	922	52	7	8	8	24	15	16
5	Total area in drainage projects ¹.....acres served 1960...	9,089,516	423,680	74,602	142,232	61,002	380,000	119,080	170,000
6	1950...	12,161,665	423,680	36,742	101,784	34,215	528,640	101,010	104,041
7	Area not used for agriculture or not drained.....acres served 1960...	1,978,892	2,500	1,490	4,700	1,900	91,000	17,760	18,000
8	Net area drained and used for agriculture.....acres served 1960...	7,110,624	421,180	73,112	137,532	59,102	289,000	101,320	152,000
9	Drainage established before 1950.....acres served 1960...	6,144,937	421,180	34,279	137,532	59,102	221,160	101,320	152,000
10	Area added, 1950-1959.....acres served 1960...	965,687	...	38,833	...	...	67,840	...	...
11	Area served by two or more projects.....acres served 1960...	1,255,460	273,766	7,653	21,353	9,605	33,293	35,614	28,153
PROJECTS, 1960, BY TYPE OF ORGANIZATION									
12	Drains owned by one landowner.....number of projects...	526	1	1	19	19	17	25	25
13	acres served ² ...	810,903	598	620	19,853	28,272	21,088	32,144	28,153
14	Cooperative or mutual drains.....number of projects...	235	34	11	1	6	14	4	...
15	acres served ² ...	309,784	58,043	46,486	1,500	8,878	12,205	4,230	...
16	Legally organized public drains.....number of projects...	154	12	1	2	4	1	2	1
17	acres served ² ...	7,337,112	695,356	33,659	137,532	31,597	289,000	100,560	152,000
PROJECTS, 1960, BY YEAR STARTED									
18	1950-1959.....number of projects...	307	17	11	5	7	12	6	2
19	acres served ² ...	1,521,116	33,766	46,486	4,976	8,090	12,483	4,737	1,234
20	Prior to 1950.....number of projects...	608	30	2	17	22	20	25	24
21	acres served ² ...	6,936,683	720,231	34,279	153,909	60,617	309,810	132,197	178,919
DRAINAGE OPERATIONS, 1950-1959 ³									
22	Cost of drainage works and services.....projects reporting...	753	36	12	22	27	15	29	26
23	dollars...	45,796,344	2,465,655	101,916	1,211,916	802,477	721,985	1,003,759	958,597
24	New drainage works constructed, enlarged, or installed.....projects reporting...	576	19	11	14	13	15	19	7
25	dollars...	24,432,591	1,315,294	80,932	541,362	132,718	275,545	344,405	607,897
26	Open ditches.....projects reporting...	562	19	11	14	13	15	18	7
27	length, miles...	8,202.7	223.6	33.4	270.8	197.9	127.2	119.0	65.0
28	Tile or covered drains.....projects reporting...	1	...	...	...	...	...	...	...
29	length, miles...	0.1	...	...	...	...	...	...	...
30	Levees or dikes.....projects reporting...	34	...	...	...	2	...	3	1
31	length, miles...	215.2	...	...	...	9.0	...	13.3	0.4
32	Pumps.....projects reporting...	45	...	...	...	4	...	2	...
33	number of pumps...	91	...	...	...	4	...	2	...
34	Other (see text).....projects reporting...	16	...	...	...	...	...	2	1
35	Cost of maintenance, operation, repair, and administration.....projects reporting...	490	18	1	22	23	1	28	24
36	dollars...	21,363,753	1,150,361	20,984	670,554	669,799	446,440	659,354	350,700

¹Land served by two or more projects counted only once.²Acres served by two projects are included for each project. See text.³Includes projects taken over by another project prior to 1960. See text.

Parish Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

Item and Census year	Caldwell	Caldwell	Cameron	Catahoula	Concordia	De Soto	East Baton Rouge	East Carroll
AREA								
1 Approximate land area.....acres 1960...	706,560	352,000	924,160	467,200	453,760	570,880	295,680	275,840
2 Land in farms.....acres 1959...	468,350	68,325	216,476	124,733	208,445	296,834	150,702	179,002
3 Drainage projects..... number 1960...	14	7	22	8	22	1	7	45
4 1950...	46	2	26	7	10	1	6	17
5 Total area in drainage projects ¹ acres served 1960...	403,284	54,357	142,947	9,738	200,000	19,840	124,146	231,000
6 1950...	706,560	1,830	142,345	5,995	16,028	19,840	79,689	276,480
7 Area not used for agriculture or not drained..... acres served 1960...	158,160	...	25,800	...	48,000	...	23,500	33,000
8 Net area drained and used for agriculture..... acres served 1960...	245,124	54,357	117,147	9,738	152,000	19,840	100,646	198,000
9 Drainage established before 1950..... acres served 1960...	232,644	1,830	102,991	8,844	11,288	19,840	57,933	198,000
10 Area added, 1950-1959..... acres served 1960...	12,480	52,527	14,156	894	140,712	...	42,713	...
11 Area served by two or more projects..... acres served 1960...	4,742	2,819	2,700	...	33,353	...	1,800	62,731
PROJECTS, 1960, BY TYPE OF ORGANIZATION								
12 Drains owned by one landowner..... number of projects...	6	4	14	1	20	...	1	35
13 acres served ² ...	8,724	2,325	55,495	700	24,292	...	1,800	49,895
14 Cooperative or mutual drains..... number of projects...	...	2	3	7	...	...	...	9
15 acres served ²...	...	1,830	10,152	9,038	...	...	...	13,436
16 Legally organized public drains..... number of projects...	8	1	5	...	2	1	6	1
17 acres served ² ...	241,142	53,021	54,200	...	164,000	19,840	100,646	198,000
PROJECTS, 1960, BY YEAR STARTED								
18 1950-1959..... number of projects...	5	5	4	1	12	...	5	15
19 acres served ² ...	173,960	55,346	5,979	894	175,045	...	87,960	17,836
20 Prior to 1950..... number of projects...	9	2	18	7	10	1	2	30
21 acres served ² ...	75,906	1,830	113,868	8,844	13,247	19,840	14,486	243,495
DRAINAGE OPERATIONS, 1950-1959 ³								
22 Cost of drainage works and services.....projects reporting...	9	5	17	6	21	1	7	39
23 dollars...	332,199	65,751	285,675	15,918	973,189	16,921	1,376,291	537,931
24 New drainage works constructed, enlarged, or installed.....projects reporting...	6	5	16	5	21	1	6	36
25 dollars...	289,731	65,751	243,290	11,491	973,189	8,837	888,291	249,343
26 Open ditches.....projects reporting...	6	5	14	5	21	1	6	36
27 length, miles...	25.1	49.1	81.6	13.7	538.8	9.0	55.8	320.9
28 Tile or covered drains.....projects reporting...	...	...	...	...	...	...	...	...
29 length, miles...	...	...	...	...	...	...	...	...
30 Levees or dikes.....projects reporting...	...	...	8	...	...	...	...	...
31 length, miles...	...	...	63.1	...	...	...	...	...
32 Pumps.....projects reporting...	1	...	4	...	...	...	...	...
33 number of pumps...	1	...	6	...	...	...	...	...
34 Other (see text).....projects reporting...	...	...	1	...	...	...	1	...
35 Cost of maintenance, operation, repair, and administration.....projects reporting...	6	...	13	3	...	1	5	34
36 dollars...	42,468	...	42,385	4,427	...	8,084	488,000	288,588

¹Land served by two or more projects counted only once.²Acres served by two projects are included for each project. See text.³Includes projects taken over by another project prior to 1960. See text.

DRAINAGE OF AGRICULTURAL LANDS

Parish Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

	Item and Census year	Evangeline	Franklin	Grant	Iberia	Iberville	Jefferson	Jefferson Davis	Lafayette
AREA									
1	Approximate land area.....acres 1960...	433,280	411,520	423,680	376,320	401,920	261,760	421,120	181,120
2	Land in farms.....acres 1960...	215,806	307,262	80,037	138,846	120,271	16,796	355,999	141,672
3	Drainage projects.....number 1960...	41	17	3	4	27	2	37	4
4	1950...	74	5	...	17	3	5	80	31
5	Total area in drainage projects ¹.....acres served 1960...	138,788	411,520	29,000	189,000	223,920	91,132	237,913	181,120
6	1950...	132,288	414,720	...	376,320	401,920	46,068	187,977	181,120
7	Area not used for agriculture or not drained.....acres served 1960...	1,600	46,720	...	39,000	137,920	87,632	17,560	4,320
8	Net area drained and used for agriculture.....acres served 1960...	137,188	364,800	29,000	150,000	86,000	3,500	220,353	176,800
9	Drainage established before 1950.....acres served 1960...	122,617	364,800	29,000	150,000	86,000	3,500	155,709	176,800
10	Area added, 1950-1959.....acres served 1960...	14,571	...	...	...	...	...	64,644	...
11	Area served by two or more projects.....acres served 1960...	9,980	16,700	2,000	55,125	28,298	...	14,044	4,985
PROJECTS, 1960, BY TYPE OF ORGANIZATION									
12	Drains owned by one landowner.....number of projects...	10	5	...	...	24	...	10	3
13	acres served ² ...	9,709	5,093	...	...	27,588	...	19,725	4,985
14	Cooperative or mutual drains.....number of projects...	17	11	2	...	2	...	16	...
15	acres served ² ...	14,791	12,257	2,000	...	1,240	...	26,934	...
16	Legally organized public drains.....number of projects...	14	1	1	4	1	2	11	1
17	acres served ² ...	122,668	364,800	29,000	209,192	86,000	3,500	187,738	176,800
PROJECTS, 1960, BY YEAR STARTED									
18	1950-1959.....number of projects...	5	8	...	...	23	1	13	...
19	acres served ² ...	16,466	6,625	...	...	23,341	1,000	106,537	...
20	Prior to 1950.....number of projects...	36	9	3	4	4	1	24	4
21	acres served ² ...	130,702	375,525	31,000	209,192	91,487	2,500	127,860	181,785
DRAINAGE OPERATIONS, 1950-1959 ³									
22	Cost of drainage works and services.....projects reporting...	21	10	3	4	27	2	21	1
23	dollars...	313,088	3,057,162	24,745	2,114,286	1,775,479	64,735	888,125	1,292,537
24	New drainage works constructed, enlarged, or installed.....projects reporting...	5	10	3	2	26	...	15	1
25	dollars...	134,191	2,057,162	12,845	1,850,000	1,175,314	...	801,011	561,049
26	Open ditches.....projects reporting...	5	10	3	2	26	...	15	1
27	length, miles...	45.8	250.7	20.4	163.9	682.4	...	84.0	406.7
28	Tile or covered drains.....projects reporting...	...	...	...	...	...	...	...	...
29	length, miles...	...	...	...	...	...	...	...	...
30	Levees or dikes.....projects reporting...	...	...	1	...	1	...	1	...
31	length, miles...	...	...	17.0	...	0.1	...	6.8	...
32	Pumps.....projects reporting...	...	...	...	...	...	...	1	...
33	number of pumps...	...	...	...	...	...	...	1	...
34	Other (see text).....projects reporting...	...	...	1	...	...	...	...	...
35	Cost of maintenance, operation, repair, and administration.....projects reporting...	16	1	3	3	20	2	13	1
36	dollars...	178,897	1,000,000	11,900	264,286	600,165	64,735	87,114	731,488

¹Land served by two or more projects counted only once.²Acres served by two projects are included for each project. See text.³Includes projects taken over by another project prior to 1960. See text.

Parish Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data.]

Item and Census year	Lafourche	Livingston	Madison	Morehouse	Natchitoches	Orleans	Ouachita	Plaquemine	Poinc
AREA									
1 Approximate land area.....acres 1960...	740,480	425,600	423,680	512,640	827,520	127,360	408,320	629,760	360,960
2 Land in farms.....acres 1950...	236,254	66,774	206,893	210,251	268,776	7,487	122,821	39,284	233,263
3 Drainage projects.....number 1960...	27	1	24	24	38	1	5	7	58
4 1950...	1	8	8	11	30	1	2	4	12
5 Total area in drainage projects ¹.....acres served 1960...	317,000	425,600	292,980	200,700	248,200	11,500	181,680	30,710	266,960
6 1950...	740,480	26	423,680	514,560	153,200	11,500	410,880	629,760	360,960
7 Area not used for agriculture or not drained.....acres served 1960...	75,000	297,600	68,600	...	2,560	10,315	45,400	12,310	16,000
8 Net area drained and used for agriculture.....acres served 1960...	242,000	128,000	223,980	200,700	245,640	1,185	136,280	18,400	250,960
9 Drainage established before 1950.....acres served 1960...	242,000	...	222,980	200,700	158,509	1,185	136,280	18,400	250,960
10 Area added, 1950-1959.....acres served 1960...	...	128,000	1,000	...	87,131	...	...	...	...
11 Area served by two or more projects.....acres served 1960...	66,553	...	33,894	22,935	46,564	...	3,688	...	96,925
PROJECTS, 1960, BY TYPE OF ORGANIZATION									
12 Drains owned by one landowner.....number of projects...	20	...	20	9	31	...	3	...	56
13 acres served ² ...	56,002	...	33,607	9,290	42,959	...	3,688	...	81,925
14 Cooperative or mutual drains.....number of projects...	1	...	3	14	4	...	...	...	...
15 acres served ³ ...	700	...	2,687	13,645	3,605	...	...	...	...
16 Legally organized public drains.....number of projects...	6	1	1	1	3	1	2	7	2
17 acres served ³ ...	251,851	128,000	221,580	200,700	245,640	1,185	136,280	18,400	265,960
PROJECTS, 1960, BY YEAR STARTED									
18 1950-1959.....number of projects...	1	1	11	6	6	...	2	4	...
19 acres served ³ ...	800	128,000	7,965	9,085	98,610	...	2,198	10,746	...
20 Prior to 1960.....number of projects...	26	...	13	18	32	1	3	3	58
21 acres served ³ ...	307,753	...	249,909	214,550	193,594	1,185	137,770	7,654	347,885
DRAINAGE OPERATIONS, 1950-1959 ³									
22 Cost of drainage works and services.....projects reporting...	29	1	14	24	35	1	4	7	49
23 dollars...	2,018,136	1,352,689	389,003	969,218	532,451	502,748	486,041	2,812,510	1,978,914
24 New drainage works constructed, enlarged, or installed.....projects reporting...	13	1	14	11	28	1	4	7	43
25 dollars...	263,789	1,127,689	190,883	436,069	343,012	150,000	314,241	1,884,500	1,085,159
26 Open ditches.....projects reporting...	11	1	14	11	28	1	3	1	43
27 length, miles...	62.7	335.5	153.6	134.8	216.2	1.0	90.6	4.8	685.4
28 Tills or covered drains.....projects reporting...	...	...	...	...	...	...	...	1	...
29 length, miles...	...	...	...	...	...	...	...	0.1	...
30 Levees or dikes.....projects reporting...	1	...	...	...	2	...	...	1	...
31 length, miles...	0.1	...	...	...	19.0	...	...	4.8	...
32 Pumps.....projects reporting...	4	...	...	...	...	...	1	7	...
33 number of pumps...	11	...	...	...	...	...	1	7	...
34 Other (see text).....projects reporting...	...	...	...	...	1	...	...	7	1
35 Cost of maintenance, operation, repair, and administration.....projects reporting...	28	1	1	23	29	1	2	7	36
36 dollars...	1,754,347	225,000	198,120	533,149	189,439	352,748	172,800	928,010	493,755

¹Land served by two or more projects counted only once.²Acres served by two projects are included for each project. See text.³Includes projects taken over by another project prior to 1960. See text.

DRAINAGE OF AGRICULTURAL LANDS

Parish Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1960 data]

Item and Census year		Rapides	Red River	Richland	St. Bernard	St. Charles	St. James	St. John the Baptist	St. Landry	St. Martin
AREA										
1	Approximate land area.....acres 1960...	842,240	264,320	368,640	326,400	194,560	159,360	144,000	595,200	461,440
2	Land in farms.....acres 1959...	261,111	150,355	253,558	12,797	43,901	52,785	32,677	310,826	97,751
3	Drainage projects.....number 1960...	25	8	12	2	9	26	10	31	8
4	1950...	4	4	7	3	4	1	7	40	2
5	Total area in drainage projects ¹.....acres served 1960...	215,000	91,000	368,640	74,000	41,427	159,360	12,727	307,639	187,648
6	1950...	850,560	91,000	368,640	226,895	32,842	75	13,509	266,099	461,440
7	Area not used for agriculture or not drained....acres served 1960...	17,900	...	48,896	69,600	...	77,360	...	...	37,376
8	Net area drained and used for agriculture.....acres served 1960...	197,100	91,000	319,744	4,400	41,427	82,000	12,727	307,639	150,272
9	Drainage established before 1950.....acres served 1960...	197,100	91,000	319,744	4,400	34,777	3,318	9,448	254,465	150,272
10	Area added, 1950-1959.....acres served 1960...	...	...	...	...	6,650	78,682	3,279	53,174	...
11	Area served by two or more projects.....acres served 1960...	24,922	11,950	8,794	...	3,168	23,654	...	53,547	57,398
PROJECTS, 1960, BY TYPE OF ORGANIZATION										
12	Drains owned by one landowner.....number of projects...	23	5	2	...	5	24	9	6	2
13	acres served ² ...	24,297	10,700	2,048	...	6,818	23,654	9,654	7,457	3,913
14	Cooperative or mutual drains.....number of projects...	1	1	9	...	...	1	...	6	1
15	acres served ² ...	625	1,250	6,746	...	...	2,937	...	2,975	1,500
16	Legally organized public drains.....number of projects...	1	2	1	2	4	1	1	19	5
17	acres served ² ...	197,100	91,000	319,744	4,400	37,777	82,000	3,073	351,254	220,718
PROJECTS, 1960, BY YEAR STARTED										
18	1950-1959.....number of projects...	15	2	4	...	3	22	3	6	...
19	acres served ² ...	15,175	4,600	2,993	...	3,568	105,293	3,279	55,062	...
20	Prior to 1950.....number of projects...	10	6	8	2	6	4	7	25	8
21	acres served ² ...	206,847	98,350	325,545	4,400	41,027	3,318	9,448	306,624	226,131
DRAINAGE OPERATIONS, 1950-1959 ³										
22	Cost of drainage works and services.....projects reporting...	22	7	5	1	8	26	9	24	7
23	dollars...	919,470	89,748	1,760,306	150,000	769,525	1,404,823	225,366	686,658	1,119,538
24	New drainage works constructed, enlarged, or installed.....projects reporting...	21	6	5	1	5	24	7	7	3
25	dollars...	425,468	48,261	410,306	100,000	165,926	927,480	60,802	142,316	680,315
26	Open ditches.....projects reporting...	21	6	5	1	5	24	7	7	3
27	length, miles...	167.1	80.0	129.2	8.0	149.9	363.8	116.6	90.6	270.6
28	Tile or covered drains.....projects reporting...	...	...	...	...	...	...	...	...	...
29	length, miles...	...	...	...	...	...	...	...	...	...
30	Levees or dikes.....projects reporting...	...	...	...	...	...	...	...	...	1
31	length, miles...	...	...	...	...	...	...	...	...	4.0
32	Pumps.....projects reporting...	...	...	...	...	...	...	...	...	1
33	number of pumps...	...	...	...	...	...	...	...	...	2
34	Other (see text).....projects reporting...	...	...	...	...	...	...	...	...	1
35	Cost of maintenance, operation, repair, and administration.....projects reporting...	6	5	1	1	7	23	9	17	6
36	dollars...	494,002	41,487	1,350,000	50,000	603,599	477,343	164,564	544,342	439,223

¹Land served by two or more projects counted only once.²Acres served by two projects are included for each project. See text.³Includes projects taken over by another project prior to 1960. See text.

Parish Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data.]

Item and Census year	St. Mary	Tangipahoa	Tensas	Terrebonne	Vermilion	West Baton Rouge	West Carroll	West Feliciana
AREA								
1 Approximate land area.....acres 1960...	387,200	513,920	398,720	890,240	783,360	128,000	227,840	262,400
2 Land in farms.....acres 1959...	139,947	184,455	245,166	100,537	386,801	54,057	183,945	137,984
3 Drainage projects..... number 1960...	15	3	30	11	57	10	44	1
4 1950...	2	89	23	3	215	1	4	...
5 Total area in drainage projects ¹.....acres served 1960...	260,501	291,192	125,958	194,000	407,199	77,154	227,840	15,000
6 1950...	387,200	122,323	49,768	890,240	480,256	128,640	227,840	...
7 Area not used for agriculture or not drained.....acres served 1960...	179,000	64,352	41,140	64,000	44,652	23,269	20,000	3,000
8 Net area drained and used for agriculture.....acres served 1960...	81,501	226,840	84,818	130,000	362,547	53,885	207,840	12,000
9 Drainage established before 1950.....acres served 1960...	81,501	121,855	33,152	130,000	360,797	53,885	207,840	12,000
10 Area added, 1950-1959.....acres served 1960...	...	104,985	51,666	...	1,750	...	...	...
11 Area served by two or more projects.....acres served 1960...	17,282	...	8,144	24,151	58,788	12,493	31,896	...
PROJECTS, 1960, BY TYPE OF ORGANIZATION								
12 Drains owned by one landowner.....number of projects...	14	...	23	10	29	9	...	1
13 acres served ² ..	17,783	...	27,297	24,151	60,108	12,493	...	12,000
14 Cooperative or mutual drains.....number of projects...	...	...	4	...	12	...	43	...
15 acres served ²..	...	...	3,336	...	14,842	...	31,896	...
16 Legally organized public drains.....number of projects...	1	3	3	1	16	1	1	...
17 acres served ³ ..	81,000	226,840	62,329	130,000	348,343	53,885	207,840	...
PROJECTS, 1960, BY YEAR STARTED								
18 1950-1958.....number of projects...	6	2	13	...	7	...	39	...
19 acres served ² ..	3,852	182,840	65,622	...	9,371	...	29,296	...
20 Prior to 1950.....number of projects...	9	1	17	11	50	10	5	1
21 acres served ² ..	94,931	44,000	27,340	154,151	413,924	66,378	210,440	12,000
DRAINAGE OPERATIONS, 1950-1959 ⁴								
22 Cost of drainage works and services.....projects reporting...	15	2	22	11	45	10	40	1
23 dollars...	1,599,547	1,485,598	370,989	1,612,942	1,269,741	807,070	382,976	100,000
24 New drainage works constructed, enlarged, or installed.....projects reporting...	13	2	22	7	36	8	40	1
25 dollars...	476,800	934,598	364,369	91,814	701,786	350,017	125,343	12,000
26 Open ditches.....projects reporting...	11	2	22	7	36	8	40	1
27 length, miles...	221.7	167.8	323.4	25.3	341.8	165.9	88.9	22.7
28 Tile or covered drains.....projects reporting...	...	...	...	...	...	...	...	...
29 length, miles...	...	...	...	...	...	...	...	...
30 Levees or dikes.....projects reporting...	1	...	...	...	12	...	...	...
31 length, miles...	2.0	...	...	...	75.6	...	...	...
32 Pumps.....projects reporting...	3	...	...	...	16	...	...	1
33 number of pumps...	5	...	...	...	47	...	...	4
34 Other (see text).....projects reporting...	...	...	...	...	...	...	...	...
35 Cost of maintenance, operation, repair, and administration.....projects reporting...	15	1	2	11	30	10	1	1
36 dollars...	1,122,747	551,000	6,620	1,521,128	567,955	457,053	257,633	88,000

¹Land served by two or more projects counted only once.²Acres served by two projects are included for each project. See text.³Includes projects taken over by another project prior to 1960. See text.

State Table 1.—DRAINAGE PROJECTS—NUMBER, AREA, COST, AND WORKS, 1920 TO 1960

[See text for comparability of data]

Item	1960 Census	1950 Census	1940 Census	1930 Census	1920 Census
AREA					
Approximate land area.....acres...	6,319,360	6,323,840	6,327,680	6,362,240	6,362,240
Land in farms.....acres.....	3,456,769	4,055,529	4,197,827	4,374,398	4,757,999
Drainage projects.....number.....	138	93	126	...	...
Total area in drainage projects.....acres served...	353,837	323,815	183,337	...	...
Area not used for agriculture or not drained.....acres served...	3,390	NA	NA	...	...
Net area drained and used for agriculture.....acres served...	350,447	NA	¹ 181,891	...	...
Drainage established 10 years or more before Census date.....acres served...	341,631	NA	NA	...	...
Drainage established within 10 years of Census date.....acres served...	8,816	NA	NA	...	...
Area served by two or more projects.....acres served...	44,541	41,853	7,585	...	...
PROJECTS BY TYPE OF ORGANIZATION					
Drains owned by one landowner.....number of projects...	...	...	...	...	...
.....acres served...	...	...	...	...	...
Cooperative or mutual drains.....number of projects...	9	3	...	...	...
.....acres served...	14,183	4,333	...	...	...
Legally organized public drains.....number of projects...	129	90	NA	...	...
.....acres served...	382,603	319,482	183,337	...	...
PROJECTS BY YEAR STARTED					
Started 10 years or more before Census date.....number of projects...	116	73	NA	...	...
.....acres served...	360,432	266,290	57,472	...	...
Started within 10 years of Census date.....number of projects...	22	20	NA	...	...
.....acres served...	36,354	57,525	125,865	...	...
OPERATIONS, 10-YEAR PERIOD PRECEDING CENSUS DATE					
Cost of drainage works and services.....projects reporting...	29	28	NA	...	...
.....dollars...	409,398	183,309	NA	...	...
New drainage works constructed, enlarged, or installed.....projects reporting...	23	² 22	NA	...	...
.....cost, dollars...	393,798	² 129,598	NA	...	...
Open ditches.....projects reporting...	23	26	NA	...	...
.....length, miles...	137.2	138	NA	...	...
Tile or covered drains.....projects reporting...	...	...	NA	...	...
.....length, miles...	...	...	NA	...	...
Levees or dikes.....projects reporting...	...	...	NA	...	...
.....length, miles...	...	...	NA	...	...
Pumps.....projects reporting...	...	NA	NA	...	...
.....number of pumps...	...	NA	NA	...	...
Other (see text).....projects reporting...	...	NA	NA	...	...
Cost of maintenance, operation, repair, and administration.....projects reporting...	8	NA	NA	...	...
.....dollars...	15,600	53,731	NA	...	...
STATUS ON CENSUS DATE					
Capital investment.....dollars...	NA	NA	43,914	...	...
Physical works:					
Open ditches.....length, miles...	NA	NA	461.3	...	...
Tile drains.....length, miles...	NA	NA	...	...	...
Levees and dikes.....length, miles...	NA	NA	...	...	...
Pumping units.....number of units...	NA	...	...	...	...

NA Not available.

¹Not fully comparable. See text.²Cost of new works for lands not previously drained.

DRAINAGE OF AGRICULTURAL LANDS

State Table 2.—DRAINAGE

	Size of project (Based on area of agricultural land in project)	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
			Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
					Projects reporting	Acres	Projects reporting	Acres
1	All projects.....	138	396,786	90,880	128	387,970	10	8,816
2	500 to 999 acres.....	45	31,330	8,155	38	26,788	7	4,542
3	1,000 to 1,999 acres.....	36	52,090	9,863	33	47,816	3	4,274
4	2,000 to 4,999 acres.....	41	127,218	14,970	41	127,218	...	...
5	5,000 to 9,999 acres.....	13	89,562	21,173	13	89,562	...	...
6	10,000 to 19,999 acres.....	2	33,541	22,943	2	33,541	...	...
7	20,000 to 49,999 acres.....	...	...	...	...	...	...	...
8	50,000 to 99,999 acres.....	1	63,045	13,776	1	63,045	...	...
9	100,000 or more acres.....	...	...	...	...	...	...	...

State Table 3.—DRAINAGE PROJECTS, 1960,

	Type of organization	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
			Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
					Projects reporting	Acres	Projects reporting	Acres
1	All projects.....	138	396,786	90,880	128	387,970	10	8,816
2	Drains owned by one landowner.....	...	...	...	...	...	...	...
3	Cooperative or mutual drains.....	9	14,183	2,234	6	12,349	3	1,834
4	Legally organized public drains.....	129	382,603	88,646	122	375,621	7	6,982

State Table 4.—DRAINAGE PROJECTS, 1960,

	Year of organization	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
			Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
					Projects reporting	Acres	Projects reporting	Acres
1	All projects.....	138	396,786	90,880	128	387,970	10	8,816
2	1950-1959.....	22	36,354	3,152	12	27,538	10	8,816
3	Prior to 1950.....	116	360,432	87,728	116	360,432	...	...

PROJECTS, 1960, BY SIZE

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959								
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	
29	409,398	23	393,798	23	137.2	...	...	...	...	...	...	...
16	103,800	13	98,843	13	52.2	...	...	...	...	...	...	...
6	88,415	4	84,972	4	22.0	...	...	...	...	...	...	...
4	50,243	4	44,643	4	29.6	...	...	...	...	...	...	...
3	166,940	2	165,340	2	33.4	...	...	...	...	...	...	...
...
...
...
...
...

BY TYPE OF ORGANIZATION

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959									
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting	
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number		
29	409,398	23	393,798	23	137.2	...	...	...	...	...	...	...	1
...	...	...	...	...	...	...	...	...	...	...	...	...	2
7	30,935	5	26,050	5	16.7	...	...	...	...	...	...	...	3
22	378,463	18	367,748	18	120.5	...	...	...	...	...	...	...	4

BY YEAR OF ORGANIZATION

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959									
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting	
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number		
29	409,398	23	393,798	23	137.2	...	...	...	...	...	...	...
21	335,229	17	327,772	17	111.7	...	...	...	...	...	...	...
8	74,169	6	66,026	6	25.5	...	...	...	...	...	...	...

DRAINAGE OF AGRICULTURAL LANDS

County Table 1. - DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

Item and Census year	The State	Caroline	Dorchester	Queen Annes	Somerset	Wicomico	Worcester
AREA							
1 Approximate land area.....acres 1960...	6,319,360	204,800	371,200	238,720	212,480	243,200	309,120
2 Land in farms.....acres 1959...	3,456,769	156,771	197,050	182,772	85,528	131,363	145,847
3 Drainage projects..... number 1960	138	35	27	33	28	14	9
4 1950	193	27	19	23	20	8	7
5 Total area in drainage projects ² acres served 1960	353,837	56,076	52,268	66,921	73,821	55,430	49,321
6 1950	323,815	50,938	43,922	64,183	64,118	52,429	48,225
7 Area not used for agriculture or not drained acres served 1960	3,390	...	...	...	2,452	...	938
8 Net area drained and used for agriculture acres served 1960	350,447	56,076	52,268	66,921	71,369	55,430	48,383
9 Drainage established before 1950..... acres served 1960	341,631	53,691	52,268	65,009	70,210	53,166	47,287
10 Area added, 1950-1959 acres served 1960	8,816	2,385	...	1,912	1,159	2,264	1,096
11 Area served by two or more projects..... acres served 1960	44,541	8,365	1,575	20,825	...	13,776	...
PROJECTS, 1960, BY TYPE OF ORGANIZATION							
12 Drains owned by one landowner number of projects...	...	...	...	...	...	...	...
13 acres served ³ .....	...	...	...	...	...	...	...
14 Cooperative or mutual drains number of projects	9	...	...	...	5	4	...
15 acres served ³	14,183	...	...	...	9,175	5,008	...
16 Legally organized public drains number of projects	1129	35	27	33	23	10	9
17 acres served ³	382,603	64,441	53,843	89,544	62,194	64,198	48,383
PROJECTS, 1960, BY YEAR STARTED							
18 1950-1950 number of projects...	22	3	...	5	5	4	5
19 acres served ³	36,354	3,102	...	3,847	9,175	2,764	17,466
20 Prior to 1950..... number of projects	1116	32	27	28	23	10	4
21 acres served ³	360,432	61,339	53,843	85,697	62,194	66,442	30,917
DRAINAGE OPERATIONS, 1950-1959 ⁴							
22 Cost of drainage works and services projects reporting...	29	7	...	5	6	7	4
23 dollars...	409,398	107,603	...	65,956	46,335	24,541	164,963
24 New drainage works constructed, enlarged, or installed..... projects reporting...	23	6	...	5	4	4	4
25 dollars...	393,798	107,360	...	65,956	42,150	13,369	164,963
26 Open ditches..... projects reporting...	23	6	...	5	4	4	4
27 length, miles...	137.2	37.1	...	18.2	14.6	14.8	52.5
28 Tile or covered drains..... projects reporting...	...	...	...	...	...	...	...
29 length, miles...	...	...	...	...	...	...	...
30 Levees or dikes..... projects reporting...	...	...	...	...	...	...	...
31 length, miles...	...	...	...	...	...	...	...
32 Pumps projects reporting...	...	...	...	...	...	...	...
33 number of pumps...	...	...	...	...	...	...	...
34 Other (see text) projects reporting...	...	...	...	...	...	...	...
35 Cost of maintenance, operation, repair, and administration..... projects reporting...	8	1	...	...	2	5	...
36 dollars...	15,600	243	...	...	4,185	11,172	...

¹An intercounty project is counted in each county in which a part is located. It is counted only once in the State total.²Land served by two or more projects counted only once.³Acres served by two projects are included for each project. See text.⁴Includes projects taken over by another project prior to 1960. See text.

State Table 1.—DRAINAGE PROJECTS—NUMBER, AREA, COST, AND WORKS, 1920 TO 1960

[See text for comparability of data.]

Item	1960 Census	1950 Census	1940 Census	1930 Census	1920 Census
AREA					
Approximate land area..... acres...	36,492,160	36,494,080	36,494,080	36,787,200	36,787,200
Land in farms..... acres...	14,782,507	17,269,992	18,037,995	17,118,951	19,032,961
Drainage projects..... number...	86	54	17,692	NA	NA
Total area in drainage projects..... acres served...	10,208,735	10,194,439	8,978,386	9,180,851	9,729,171
Area not used for agriculture or not drained..... acres served...	331,686	NA	NA	NA	NA
Net area drained and used for agriculture..... acres served...	9,877,049	NA	27,796,979	28,826,265	NA
Drainage established 10 years or more before Census date..... acres served...	9,753,462	NA	NA	NA	NA
Drainage established within 10 years of Census date..... acres served...	123,587	NA	NA	NA	NA
Area served by two or more projects..... acres served...	23,279	NA	7,091,887	5,851,841	6,037,307
PROJECTS BY TYPE OF ORGANIZATION					
Drains owned by one landowner..... number of projects.....	11	(3)	NA	NA	NA
..... acres served ²	7,454	(3)	7,560	21,530	22,280
Cooperative or mutual drains..... number of projects.....	21	(3)	...	...	...
..... acres served ²	22,724	(3)	...	...	...
Legally organized public drains..... number of projects.....	54	254	NA	NA	NA
..... acres served ²	9,870,150	310,194,439	8,970,826	9,159,321	9,706,891
PROJECTS BY YEAR STARTED					
Started 10 years or more before Census date..... number of projects.....	64	NA	NA	NA	NA
..... acres served.....	9,883,963	NA	8,276,514	8,336,081	46,273,912
Started within 10 years of Census date..... number of projects.....	22	NA	NA	NA	NA
..... acres served.....	16,365	NA	701,872	844,770	43,435,274
OPERATIONS, 10-YEAR PERIOD PRECEDING CENSUS DATE					
Cost of drainage works and services..... projects reporting.....	79	51	NA	NA	NA
..... dollars.....	37,186,074	20,235,636	NA	NA	NA
New drainage works constructed, enlarged, or installed..... projects reporting.....	67	337	NA	NA	NA
..... cost, dollars.....	4,783,366	2,556,472	NA	NA	NA
Open ditches..... projects reporting.....	64	34	NA	NA	NA
..... length, miles.....	974.6	554	NA	NA	NA
Tile or covered drains..... projects reporting.....	29	28	NA	NA	NA
..... length, miles.....	208.5	145	NA	NA	NA
Levees or dikes..... projects reporting.....	2	...	NA	NA	NA
..... length, miles.....	4.7	...	NA	NA	NA
Pumps..... projects reporting.....	7	NA	NA	NA	NA
..... number of pumps.....	15	NA	NA	NA	NA
Other (see text)..... projects reporting.....	4	NA	NA	NA	NA
Cost of maintenance, operation, repair, and administration..... projects reporting.....	55	51	NA	NA	NA
..... dollars.....	32,402,708	17,679,164	NA	NA	NA
STATUS ON CENSUS DATE					
Capital investment..... dollars.....	NA	NA	40,412,251	37,677,084	24,683,715
Physical works:					
Open ditches..... length, miles.....	NA	NA	19,608.6	17,188.5	16,023.8
Tile drains..... length, miles.....	NA	NA	3,229.5	3,490.2	2,173.9
Levees and dikes..... length, miles.....	NA	NA	13.6	34.6	33.1
Pumping units..... number of units.....	NA	NA	2	3	NA

NA Not available.

¹In 1940, each county drain was counted as a separate project. See text.²Not fully comparable. See text.³All projects in 1950 included with county drains. See text.⁴1920 figures exclude 19,985 acres for which date of organization was not reported.⁵Cost of new works for lands not previously drained.

DRAINAGE OF AGRICULTURAL LANDS

State Table 2.—DRAINAGE

	Size of project (Based on area of agricultural land in project)	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
			Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
					Projects reporting	Acres	Projects reporting	Acres
1	All projects.....	86	9,900,328	46,558	83	9,776,741	42	123,587
2	500 to 999 acres.....	28	18,013	11,114	25	13,353	11	4,660
3	1,000 to 1,999 acres.....	5	7,085	3,765	5	7,085	...	...
4	2,000 to 4,999 acres.....	1	4,200	600	1	4,200	...	...
5	5,000 to 9,999 acres.....	3	22,096	8,850	3	22,096	...	...
6	10,000 to 19,999 acres.....	2	31,169	...	2	31,169	...	...
7	20,000 to 49,999 acres.....	5	184,213	1,108	5	184,213	...	...
8	50,000 to 99,999 acres.....	5	403,485	...	5	403,035	1	450
9	100,000 or more acres.....	37	9,230,067	21,121	37	9,111,590	30	118,477

State Table 3.—DRAINAGE PROJECTS, 1960,

	Type of organization	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
			Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
					Projects reporting	Acres	Projects reporting	Acres
1	All projects.....	86	9,900,328	46,558	83	9,776,741	42	123,587
2	Drains owned by one landowner.....	11	7,454	4,864	11	6,054	4	1,400
3	Cooperative or mutual drains.....	21	22,724	18,415	18	19,234	7	3,490
4	Legally organized public drains.....	54	9,870,150	23,279	54	9,751,453	31	118,697

State Table 4.—DRAINAGE PROJECTS, 1960,

	Year of organization	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
			Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
					Projects reporting	Acres	Projects reporting	Acres
1	All projects.....	86	9,900,328	46,558	83	9,776,741	42	123,587
2	1950-1959.....	22	16,365	10,205	19	11,705	11	4,660
3	Prior to 1950.....	64	9,883,963	36,353	64	9,765,036	31	118,927

PROJECTS, 1960, BY SIZE

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959									
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other projects reporting	
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number		
79	37,186,074	67	4,783,366	64	974.6	29	208.5	2	4.7	7	15	4	
25	311,587	24	264,987	22	37.2	9	157.0	1	0.7	2	5	2	
4	55,731	4	55,731	4	7.4	1	15.0	1	4.0	1	2	1	
1	1,700	...	...	...	...	...	...	...	...	...	...	...
2	175,896	2	3,896	1	0.2	...	...	...	...	1	3	...
2	27,983	...	...	...	...	...	...	...	...	...	...	...
3	139,109	1	7,100	1	0.5	...	...	...	...	...	...	...
5	581,023	1	19,480	1	1.0	1	0.1	...	...	...	...	...
37	35,893,045	35	4,432,172	35	928.3	18	36.4	...	...	3	5	1

BY TYPE OF ORGANIZATION

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959									
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting	
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number		
79	37,186,074	67	4,783,366	64	974.6	29	208.5	2	4.7	7	15	4	
9	247,500	9	222,300	8	19.2	7	154.7	1	0.7	1	4	...	
20	244,818	19	51,418	17	21.4	2	2.3	...	...	2	4	3
50	36,693,756	39	4,509,648	39	934.0	20	51.5	1	4.0	4	7	1	

BY YEAR OF ORGANIZATION

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959									
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting	
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number		
79	37,186,074	67	4,783,366	64	974.6	29	208.5	2	4.7	7	15	4	
22	270,068	22	270,068	22	30.5	7	116.9	2	4.7	2	6	3	
57	36,916,006	45	4,513,298	42	944.1	22	91.6	...	...	5	9	1

DRAINAGE OF AGRICULTURAL LANDS

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data.]

Item and Census year		The State	Allema	Allegran	Alpena	Arensee	Barry	Bay	Berrien	Branch	Calhoun
AREA											
1	Approximate land area.....acres 1960...	36,492,160	433,280	530,560	363,520	235,520	351,360	285,440	371,200	323,840	453,760
2	Land in farms.....acres 1959...	14,782,507	99,803	323,225	135,133	108,956	244,336	193,555	263,926	280,603	335,479
3	Drainage projects.....number 1960...	86	2	1	...	1	5	2	1	1	1
4	1956...	54	1	1	1	1	1	1	1	1	1
5	Total area in drainage projects ¹.....acres served 1960...	10,208,735	4,200	238,017	...	171,868	160,862	255,634	153,185	239,504	224,464
6	1950...	10,194,439	4,520	238,017	40,525	171,868	159,252	253,184	152,640	219,424	222,967
7	Area not used for agriculture or not drained.....acres served 1960...	331,686	...	920	...	...	...	12,320	...	...	...
8	Net area drained and used for agriculture.....acres served 1960...	9,877,049	4,200	237,097	...	171,868	160,862	243,314	153,185	239,504	224,464
9	Drainage established before 1950.....acres served 1960...	9,753,462	4,200	237,097	...	171,868	159,252	240,864	152,640	219,424	222,967
10	Area added, 1950-1959.....acres served 1960...	123,587	...	...	...	...	1,610	2,450	545	20,080	1,497
11	Area served by two or more projects.....acres served 1960...	23,279	600	...	...	...	1,800	580	...	...	...
PROJECTS, 1960, BY TYPE OF ORGANIZATION											
12	Drains owned by one landowner.....number of projects...	11	...	...	...	...	...	...	...	...	...
13	acres served ² ...	7,454	...	...	...	...	...	...	...	...	...
14	Cooperative or mutual drains.....number of projects...	21	1	...	...	...	4	1	...	...	...
15	acres served ² ...	22,724	600	...	...	...	2,770	580	...	...	...
16	Legally organized public drains.....number of projects...	54	1	1	...	1	1	1	1	1	1
17	acres served ² ...	9,870,150	4,200	237,097	...	171,868	159,892	243,314	153,185	239,504	224,464
PROJECTS, 1960, BY YEAR STARTED											
18	1950-1959.....number of projects...	22	1	...	...	...	4	...	...	...	...
19	acres served ² ...	16,365	600	...	...	...	2,770	...	...	...	...
20	Prior to 1950.....number of projects...	64	1	1	...	1	1	2	1	1	1
21	acres served ² ...	9,883,963	4,200	237,097	...	171,868	159,892	243,894	153,185	239,504	224,464
DRAINAGE OPERATIONS, 1950-1959 ³											
22	Cost of drainage works and services.....projects reporting...	79	2	1	...	1	5	2	1	1	1
23	dollars...	37,186,074	3,550	321,663	...	19,673	155,892	1,119,431	637,768	675,088	565,565
24	New drainage works constructed, enlarged, or installed.....projects reporting...	67	1	1	...	1	5	1	1	1	1
25	dollars...	4,783,366	1,850	10,720	...	3,944	78,940	502,250	13,600	128,839	48,394
26	Open ditches.....projects reporting...	64	1	1	...	1	5	1	1	1	1
27	length, miles...	974.6	1.3	7.3	...	1.4	20.4	132.9	3.9	35.7	13.0
28	Tile or covered drains.....projects reporting...	29	...	...	...	...	1	1	1	1	1
29	length, miles...	208.5	...	...	...	...	0.9	1.4	0.1	3.5	1.1
30	Levees or dikes.....projects reporting...	2	...	...	...	...	...	...	...	...	...
31	length, miles...	4.7	...	...	...	...	...	...	...	...	...
32	Pumps.....projects reporting...	7	...	...	...	...	...	1	...	1	...
33	number of pumps...	15	...	...	...	...	...	3	...	1	...
34	Other (see text).....projects reporting...	4	...	...	...	...	...	...	...	...	1
35	Cost of maintenance, operation, repair, and administration.....projects reporting...	55	1	1	...	1	1	2	1	1	1
36	dollars...	32,402,708	1,700	310,943	...	15,729	76,952	617,181	624,168	546,249	517,171

¹Land served by two or more projects counted only once.²Acres served by two projects are included for each project. See text.³Includes projects taken over by another project prior to 1960. See text.

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data.]

	Item and Census year	Cass	Chippewa	Clare	Clinton	Eaton	Genesee	Oldswin	Gretiot	Hillsdale
AREA										
1	Approximate land area..... acres 1960...	312,320	1,011,200	366,080	365,440	362,880	411,520	321,920	362,240	384,640
2	Land in farms..... acres 1959...	225,148	122,334	118,290	324,364	310,342	239,291	126,629	321,737	321,249
3	Drainage projects..... number 1960...	3	1	2	1	1	1	1	2	1
4	1950...	1	...	1	1	1	1	1	1	1
5	Total area in drainage projects ¹ acres served 1960...	49,675	960	19,542	316,230	324,150	274,418	105,827	338,320	192,038
6	1950...	49,675	...	22,202	315,656	323,200	272,417	117,637	335,320	188,488
7	Area not used for agriculture or not drained..... acres served 1960...	...	...	...	1,220	800	13,000	...	...	...
8	Net area drained and used for agriculture..... acres served 1960...	49,675	960	19,542	315,010	323,350	261,418	105,827	338,320	192,038
9	Drainage established before 1950..... acres served 1960...	49,675	...	19,002	314,436	322,400	239,417	105,377	335,320	188,488
10	Area added, 1950-1959..... acres served 1960...	...	960	540	574	950	2,001	450	3,000	3,550
11	Area served by two or more projects..... acres served 1960...	1,108	...	...	...	...	...	...	510	...
PROJECTS, 1960, BY TYPE OF ORGANIZATION										
12	Drains owned by one landowner..... number of projects...	2	...	...	...	...	...	...	...	...
13	acres served ² ...	1,108	...	...	...	...	...	...	...	...
14	Cooperative or mutual drains..... number of projects...	...	1	1	...	...	...	...	1	...
15	acres served ²...	...	960	540	...	...	...	...	510	...
16	Legally organized public drains..... number of projects...	1	...	1	1	1	1	1	1	1
17	acres served ² ...	49,675	...	19,002	315,010	323,350	261,418	105,827	338,320	192,038
PROJECTS, 1960, BY YEAR STARTED										
18	1950-1959..... number of projects...	...	1	1	...	...	...	...	1	...
19	acres served ²...	...	960	540	...	...	...	...	510	...
20	Prior to 1950..... number of projects...	3	...	1	1	1	1	1	1	1
21	acres served ² ...	50,783	...	19,002	315,010	323,350	261,418	105,827	338,320	192,038
DRAINAGE OPERATIONS, 1950-1959 ³										
22	Cost of drainage works and services..... projects reporting...	3	(⁴)	2	1	1	1	1	2	1
23	dollars...	181,203	(⁴)	22,860	146,155	1,076,717	1,402,869	26,889	4,353,954	409,363
24	New drainage works constructed, enlarged, or installed..... projects reporting...	3	(⁴)	1	1	1	1	1	2	1
25	dollars...	42,100	(⁴)	1,365	3,658	233,700	68,959	8,900	255,372	109,193
26	Open ditches..... projects reporting...	3	(⁴)	1	1	1	1	1	2	1
27	length, miles...	11.2	(⁴)	0.9	1.3	26.7	10.3	2.6	20.5	23.2
28	Tile or covered drains..... projects reporting...	2	...	...	...	1	...	...	2	1
29	length, miles...	47.5	...	...	...	3.2	...	...	3.4	10.9
30	Levees or dikes..... projects reporting...	...	...	...	...	...	...	...	...	...
31	length, miles...	...	...	...	...	...	...	...	...	...
32	Pumps..... projects reporting...	...	...	...	...	...	...	...	...	...
33	number of pumps...	...	...	...	...	...	...	...	...	...
34	Other (see text)..... projects reporting...	...	...	...	...	...	...	...	...	...
35	Cost of maintenance, operation, repair, and administration..... projects reporting...	3	...	1	1	1	1	1	1	1
36	dollars...	139,103	...	21,495	142,497	843,017	1,333,910	17,989	4,098,582	300,170

¹Land served by two or more projects counted only once.²Acres served by two projects are included for each project. See text.³Includes projects taken over by another project prior to 1960. See text.⁴Included in State total only.

DRAINAGE OF AGRICULTURAL LANDS

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

Item and Census year	Huron	Ingham	Ironia	Iosco	Isabella	Jackson	Kalamazoo	Kent	Lapeer
AREA									
1 Approximate land area.....acres 1960...	526,080	357,760	368,000	350,080	366,080	451,200	362,880	551,680	420,480
2 Land in farms.....acres 1959...	467,163	282,030	306,679	84,126	271,007	305,839	223,062	311,605	321,801
3 Drainage projects.....number 1960...	1	3	1	1	2	1	1	1	6
4 1950...	1	1	1	1	1	1	1	1	1
5 Total area in drainage projects ¹.....acres served 1960...	386,969	315,197	209,387	92,716	233,344	156,200	64,328	190,137	308,541
6 1950...	378,169	330,824	209,387	96,666	227,328	175,022	65,128	188,569	287,539
7 Area not used for agriculture or not drained.....acres served 1960...	...	...	...	...	2,520	4,480	...	9,000	...
8 Net area drained and used for agriculture.....acres served 1960...	386,969	315,197	209,387	92,716	230,824	151,720	64,328	181,137	308,541
9 Drainage established before 1950.....acres served 1950...	375,520	314,997	209,387	92,266	226,088	151,020	64,328	179,569	287,539
10 Area added, 1950-1959.....acres served 1960...	11,449	200	...	450	4,736	700	...	1,568	21,002
11 Area served by two or more projects.....acres served 1960...	...	540	...	...	600	...	...	...	1,350
PROJECTS, 1960, BY TYPE OF ORGANIZATION									
12 Drains owned by one landowner.....number of projects...	...	1	...	...	...	...	...	...	2
13 acres served ²...	...	800	...	...	...	...	...	...	1,400
14 Cooperative or mutual drains.....number of projects...	...	1	...	...	1	...	...	...	3
15 acres served ²...	...	540	...	...	600	...	...	...	1,989
16 Legally organized public drains.....number of projects...	1	1	1	1	1	1	1	1	1
17 acres served ² ...	386,969	314,397	209,387	92,716	230,824	151,720	64,328	181,137	306,502
PROJECTS, 1960, BY YEAR STARTED									
18 1950-1959.....number of projects...	...	1	...	...	1	...	...	...	2
19 acres served ²...	...	540	...	...	600	...	...	...	1,170
20 Prior to 1950.....number of projects...	1	2	1	1	1	1	1	1	4
21 acres served ² ...	386,969	315,197	209,387	92,716	230,824	151,720	64,328	181,137	308,721
DRAINAGE OPERATIONS, 1950-1959 ³									
22 Cost of drainage works and services.....projects reporting...	1	2	1	1	2	1	1	1	6
23 dollars...	1,253,451	3,103,655	367,544	20,755	442,237	695,006	215,609	377,071	430,608
24 New drainage works constructed, enlarged, or installed.....projects reporting...	1	2	1	1	2	1	...	1	6
25 dollars...	210,150	140,802	3,949	19,480	51,700	67,456	...	17,691	124,426
26 Open ditches.....projects reporting...	1	2	1	1	2	1	...	1	5
27 length, miles...	37.0	12.1	0.6	1.0	12.1	5.4	...	8.2	29.4
28 Tile or covered drains.....projects reporting...	1	1	1	1	1	...	...	...	1
29 length, miles...	0.3	2.4	0.4	0.1	2.5	...	...	...	7.6
30 Levees or dikes.....projects reporting...	...	...	...	...	...	...	...	...	...
31 length, miles...	...	...	...	...	...	...	...	...	...
32 Pumps.....projects reporting...	1	...	...	...	...	...	...	...	...
33 number of pumps...	1	...	...	...	...	...	...	...	...
34 Other (see text).....projects reporting...	...	...	...	...	...	...	...	...	1
35 Cost of maintenance, operation, repair, and administration.....projects reporting...	1	1	1	1	1	1	1	1	3
36 dollars...	1,043,301	2,962,853	363,595	1,275	390,537	627,550	215,609	359,380	306,182

¹Land served by two or more projects counted only once.²Acres served by two projects are included for each project. See text.³Includes projects taken over by another project prior to 1960. See text.

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

Item and Census year	Lemawee	Livingston	Macomb	Manistee	Mason	Mecosta	Midland	Missaukee	Monroe
AREA									
1 Approximate land area.....acres 1940...	482,560	365,440	307,840	357,120	315,520	360,320	332,800	361,600	359,680
2 Land in farms.....acres 1949...	427,353	229,492	151,229	80,398	124,653	191,324	129,644	130,922	280,742
3 Drainage projects..... number 1949...	1	2	2	1	1	1	1	1	1
4 1950...	1	1	1	1	1	1	1	1	1
5 Total area in drainage projects ¹ acres served 1940...	376,988	144,437	220,960	13,767	46,461	27,725	262,507	27,525	352,564
6 1950...	375,168	142,414	219,054	13,767	46,461	27,725	262,372	27,525	356,324
7 Area not used for agriculture or not drained acres served 1940...	...	1,280	55,000	1,600	2,300	...	5,480	4,200	13,240
8 Net area drained and used for agriculture acres served 1940...	376,988	143,157	165,960	12,167	44,161	27,725	257,027	23,325	339,324
9 Drainage established before 1950..... acres served 1940...	376,668	139,214	164,054	12,167	44,161	27,725	255,812	23,325	339,324
10 Area added, 1950-1959 acres served 1940...	320	3,943	1,906	...	...	...	1,215	...	...
11 Area served by two or more projects..... acres served 1940...	...	...	240	...	...	...	...	...	...
PROJECTS, 1960, BY TYPE OF ORGANIZATION									
12 Drains owned by one landowner..... number of projects...	...	...	...	...	...	...	...	...	...
13 acres served ² ..	...	...	...	...	...	...	...	...	...
14 Cooperative or mutual drains..... number of projects...	...	1	1	...	...	...	...	...	...
15 acres served ³ ..	...	160	500	...	...	...	...	...	...
16 Legally organized public drains..... number of projects...	1	1	1	1	1	1	1	1	1
17 acres served ⁴ ..	376,988	142,997	165,700	12,167	44,161	27,725	257,027	23,325	339,324
PROJECTS, 1960, BY YEAR STARTED									
18 1950-1959 number of projects...	...	1	1	...	...	...	...	...	...
19 acres served ² ..	...	160	500	...	...	...	...	...	...
20 Prior to 1950..... number of projects...	1	1	1	1	1	1	1	1	1
21 acres served ² ..	376,988	142,997	165,700	12,167	44,161	27,725	257,027	23,325	339,324
DRAINAGE OPERATIONS, 1950-1959 ³									
22 Cost of drainage works and services .....projects reporting...	1	2	2	1	1	1	1	...	1
23 dollars...	749,767	442,033	167,351	6,488	12,224	3,682	102,689	...	1,033,015
24 New drainage works constructed, enlarged, or installed.....projects reporting...	1	(4)	2	...	...	...	1	...	...
25 dollars...	7,000	(4)	18,370	...	...	...	85,309	...	...
26 Open ditches.....projects reporting...	1	(4)	2	...	...	...	1	...	...
27 length, miles...	1.9	(4)	3.8	...	...	...	8.7	...	...
28 Tile or covered drains.....projects reporting...	...	...	...	...	...	...	1	...	...
29 length, miles...	...	...	...	...	...	...	1.5	...	...
30 Levees or dikes.....projects reporting...	...	...	...	...	...	...	...	...	...
31 length, miles...	...	...	...	...	...	...	...	...	...
32 Pumps.....projects reporting...	...	...	...	...	...	...	...	...	...
33 number of pumps...	...	...	...	...	...	...	...	...	...
34 Other (see text).....projects reporting...	...	...	...	...	...	...	...	...	...
35 Cost of maintenance, operation, repair, and administration.....projects reporting...	1	(4)	1	1	1	1	1	...	1
36 dollars...	742,767	(4)	148,981	6,488	12,224	3,682	17,380	...	1,033,015

¹Land served by two or more projects counted only once.²Acres served by two projects are included for each project. See text.³Includes projects taken over by another project prior to 1960. See text.⁴Included in State total only.

DRAINAGE OF AGRICULTURAL LANDS

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

Item and Census year		Montcalm	Monksgon	Newaygo	Oakland	Oceana	Ogemaw	Oscoda	Ottawa	Presque Isle	Rosecommon
AREA											
1	Approximate land area.....acres 1960...	455,680	322,960	548,480	561,280	343,040	367,360	371,840	360,960	418,560	333,440
2	Land in farms.....acres 1959...	321,688	97,524	184,098	165,110	170,963	126,943	199,230	217,258	138,772	12,212
3	Drainage projects.....number 1960...	1	1	1	1	1	2	1	1	1	1
4	1950...	1	1	1	1	1	1	1	1	1	1
5	Total area in drainage projects ¹.....acres served 1960...	164,024	95,194	140,352	206,259	86,968	8,120	41,007	190,122	1,820	6,486
6	1950...	152,704	96,704	139,392	202,419	86,903	7,930	41,007	190,722	1,820	14,549
7	Area not used for agriculture or not drained.....acres served 1960...	...	2,880	...	60,000	6,000	720	1,680	...	...	...
8	Net area drained and used for agriculture.....acres served 1960...	164,024	92,314	140,352	146,259	80,968	7,400	39,327	190,122	1,820	6,486
9	Drainage established before 1950.....acres served 1960...	152,704	92,314	139,392	142,419	80,968	7,210	39,327	189,922	1,820	6,486
10	Area added, 1950-1959.....acres served 1960...	11,320	...	960	3,840	...	190	...	200	...	...
11	Area served by two or more projects.....acres served 1960...	...	...	...	...	...	450	...	...	...	...
PROJECTS, 1960, BY TYPE OF ORGANIZATION											
12	Drains owned by one landowner.....number of projects...	...	...	...	...	...	1	...	...	...	...
13	acres served ²...	...	...	...	...	...	640	...	...	...	...
14	Cooperative or mutual drains.....number of projects...	...	...	...	...	...	...	...	...	...	...
15	acres served ²...	...	...	...	...	...	...	...	...	...	...
16	Legally organized public drains.....number of projects...	1	1	1	1	1	1	1	1	1	1
17	acres served ² ...	164,024	92,314	140,352	146,259	80,968	7,210	39,327	190,122	1,820	6,486
PROJECTS, 1960, BY YEAR STARTED											
18	1950-1959.....number of projects...	...	...	...	...	...	1	...	...	...	...
19	acres served ²...	...	...	...	...	...	640	...	...	...	...
20	Prior to 1950.....number of projects...	1	1	1	1	1	1	1	1	1	1
21	acres served ² ...	164,024	92,314	140,352	146,259	80,968	7,210	39,327	190,122	1,820	6,486
DRAINAGE OPERATIONS, 1950-1959 ³											
22	Cost of drainage works and services.....projects reporting...	1	1	1	1	1	(⁴)	...	1	...	1
23	dollars...	309,113	170,752	193,863	250,950	32,214	(⁴)	...	316,160	...	896
24	New drainage works constructed, enlarged, or installed.....projects reporting...	1	...	1	1	...	(⁴)	...	1	...	1
25	dollars...	178,000	...	68,695	153,572	...	(⁴)	...	69,865	...	896
26	Open ditches.....projects reporting...	1	...	1	1	...	(⁴)	...	1	...	1
27	length, miles...	60.5	...	4.8	3.3	...	(⁴)	...	5.7	...	0.2
28	Tile or covered drains.....projects reporting...	...	...	1	1	...	(⁴)	...	1	...	...
29	length, miles...	...	...	1.5	0.7	...	(⁴)	...	1.1	...	...
30	Levees or dikes.....projects reporting...	...	...	...	...	...	...	...	...	...	...
31	length, miles...	...	...	...	...	...	...	...	...	...	...
32	Pumps.....projects reporting...	...	...	...	...	...	...	...	...	...	...
33	number of pumps...	...	...	...	...	...	...	...	...	...	...
34	Other (see text).....projects reporting...	...	...	...	...	...	...	...	...	...	...
35	Cost of maintenance, operation, repair, and administration.....projects reporting...	1	1	1	1	1	...	...	1	...	...
36	dollars...	131,113	170,752	125,168	97,378	32,214	...	...	246,295	...	...

¹Land served by two or more projects counted only once.²Acres served by two projects are included for each project. See text.³Includes projects taken over by another project prior to 1960. See text.⁴Included in State total only.

County Table 1. - DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

Item and Census year		Saginaw	St. Clair	St. Joseph	Sanilac	Shiawassee	Tuscola	Van Buren	Washtenaw	Wayne
AREA										
1	Approximate land area.....acres 1960...	519,680	473,600	325,120	615,040	345,600	522,240	388,480	458,240	388,480
2	Land in farms.....acres 1959.....	402,060	309,987	255,655	537,716	296,723	404,433	265,471	320,097	84,744
3	Drainage projects..... number 1960.....	5	4	1	1	1	3	2	4	1
4	..... number 1950.....	1	1	1	1	1	1	1	1	1
6	Total area in drainage projects ¹ acres served 1960.....	462,268	254,808	73,159	487,559	281,132	422,583	190,022	364,196	234,009
7	..... 1950.....	459,968	242,127	73,159	480,889	278,112	421,373	190,022	364,196	234,009
8	Area not used for agriculture or not drained..... acres served 1960.....	5,200	12,797	...	...	...	5,280	...	14,000	95,769
9	Not area drained and used for agriculture..... acres served 1960.....	457,068	242,011	73,159	487,559	281,132	417,303	190,022	350,196	138,240
9	Drainage established before 1950..... acres served 1960.....	453,268	229,330	73,159	486,889	278,112	416,093	190,022	350,196	138,240
10	Area added, 1950-1959..... acres served 1960.....	3,800	12,681	...	670	3,020	1,210	...	...	...
11	Area served by two or more projects..... acres served 1960.....	9,250	1,130	...	...	...	1,500	176	3,445	...
PROJECTS, 1960, BY TYPE OF ORGANIZATION										
12	Drains owned by one landowner..... number of projects.....	1	3	...	...	...	1	1	...	...
13	..... acres served ²	640	1,790	...	...	...	900	176	...	...
14	Cooperative or mutual drains..... number of projects.....	2	...	...	...	...	1	...	3	...
15	..... acres served ²	8,930	...	...	...	...	600	...	3,445	...
16	Legally organized public drains..... number of projects.....	2	1	1	1	1	1	1	1	1
17	..... acres served ²	456,748	241,351	73,159	487,559	281,132	417,303	190,022	350,196	138,240
PROJECTS, 1960, BY YEAR STARTED										
18	1950-1959..... number of projects.....	2	3	...	...	...	...	...	3	...
19	..... acres served ²	2,140	1,790	...	...	...	...	...	3,445	...
20	Prior to 1950..... number of projects.....	3	1	1	1	1	3	2	1	1
21	..... acres served ²	464,178	241,351	73,159	487,559	281,132	418,803	190,198	350,196	138,240
DRAINAGE OPERATIONS, 1950-1959 ³										
22	Cost of drainage works and services.....projects reporting...	5	4	1	1	1	1	2	4	1
23	..... dollars.....	4,120,646	814,260	141,693	1,122,660	805,170	2,001,602	540,361	636,508	5,143,351
24	New drainage works constructed, enlarged, or installed.....projects reporting...	5	4	...	1	1	1	(4)	3	1
25	..... dollars.....	277,068	296,844	...	1,120,931	123,344	84,560	(4)	8,653	12,948
26	Open ditches.....projects reporting...	3	4	...	1	1	1	(4)	3	1
27	..... length, miles.....	49.4	56.2	...	290.7	20.3	17.7	(4)	3.4	5.0
28	Tile or covered drains.....projects reporting...	2	3	...	...	1	...	(4)	...	...
29	..... length, miles.....	55.0	56.0	...	...	0.6	...	(4)	...	...
30	Levees or dikes.....projects reporting...	1	1	...	...	...	...	...	...	...
31	..... length, miles.....	4.0	0.7	...	...	...	...	...	...	...
32	Pumps.....projects reporting...	3	1	...	...	...	...	...	...	...
33	..... number of pumps.....	6	4	...	...	...	...	...	...	...
34	Other (see text).....projects reporting...	...	...	...	...	...	...	...	2	...
35	Cost of maintenance, operation, repair, and administration.....projects reporting...	3	1	1	1	1	1	(4)	1	1
36	..... dollars.....	3,843,578	517,416	141,693	1,729	681,826	1,917,042	(4)	627,855	5,130,403

¹Land served by two or more projects counted only once.²Acres served by two projects are included for each project. See text.³Includes projects taken over by another project prior to 1960. See text.⁴Included in State total only.

State Table 1.—DRAINAGE PROJECTS—NUMBER, AREA, COST, AND WORKS, 1920 TO 1960

[See text for comparability of data.]

Item	1960 Census	1950 Census	1940 Census	1930 Census	1920 Census
AREA					
Approximate land area.....acres...	51,205,760	51,205,760	51,205,760	51,749,120	51,749,120
Land in farms.....acres...	30,796,097	32,883,163	32,606,962	30,913,367	30,221,758
Drainage projects.....number...	307	82	12,498	NA	NA
Total area in drainage projects.....acres served...	11,688,201	11,269,962	10,990,409	11,474,683	9,232,709
Area not used for agriculture or not drained.....acres served...	1,127,393	NA	NA	NA	NA
Net area drained and used for agriculture.....acres served...	10,560,808	NA	28,397,586	28,782,323	NA
Drainage established 10 years or more before Census date.....acres served...	9,316,571	NA	NA	NA	NA
Drainage established within 10 years of Census date.....acres served...	1,244,237	NA	NA	NA	NA
Area served by two or more projects.....acres served...	475,138	NA	3,711,787	3,206,822	741,953
PROJECTS BY TYPE OF ORGANIZATION					
Drains owned by one landowner.....number of projects...	25	(3)	NA	NA	NA
acres served...	34,930	(3)	35,730	1,800	800
Cooperative or mutual drains.....number of projects...	192	(3)	...	...	...
acres served...	248,293	(3)	...	...	...
Legally organized public drains.....number of projects...	90	382	NA	NA	NA
acres served...	10,761,923	211,269,962	10,954,679	11,472,883	9,231,909
PROJECTS BY YEAR STARTED					
Started 10 years or more before Census date.....number of projects...	147	NA	NA	NA	NA
acres served...	10,674,766	NA	10,917,025	10,665,166	43,585,208
Started within 10 years of Census date.....number of projects...	160	NA	NA	NA	NA
acres served...	370,380	NA	73,384	809,517	45,633,290
OPERATIONS, 10-YEAR PERIOD PRECEDING CENSUS DATE					
Cost of drainage works and services.....projects reporting...	248	71	NA	NA	NA
dollars...	41,809,993	18,310,583	NA	NA	NA
New drainage works constructed, enlarged, or installed.....projects reporting...	207	330	NA	NA	NA
cost, dollars...	23,831,372	21,994,914	NA	NA	NA
Open ditches.....projects reporting...	205	29	NA	NA	NA
length, miles...	2,333.2	357	NA	NA	NA
Tile or covered drains.....projects reporting...	47	11	NA	NA	NA
length, miles...	935.6	80	NA	NA	NA
Levees or dikes.....projects reporting...	2	...	NA	NA	NA
length, miles...	0.4	...	NA	NA	NA
Pumps.....projects reporting...	2	NA	NA	NA	NA
number of pumps...	2	NA	NA	NA	NA
Other (see text).....projects reporting...	2	NA	NA	NA	NA
Cost of maintenance, operation, repair, and administration.....projects reporting...	97	71	NA	NA	NA
dollars...	17,978,621	16,715,669	NA	NA	NA
STATUS ON CENSUS DATE					
Capital investment.....dollars...	NA	NA	65,576,077	64,139,641	42,017,447
Physical works:					
Open ditches.....length, miles...	NA	NA	15,856.7	14,477.6	14,697.0
Tile drains.....length, miles...	NA	NA	9,893.4	9,451.3	5,924.6
Levees and dikes.....length, miles...	NA	NA	0.4	149.7	0.1
Pumping units.....number of units...	NA	NA	3	5	...

NA Not available.

1In 1940 each county drain was counted as a separate project. See text.

2Not fully comparable. See text.

3All projects in 1950 included with county drains. See text.

41920 figures exclude 14,211 acres for which date of organization was not reported.

5Cost of new works for lands not previously drained.

DRAINAGE OF AGRICULTURAL LANDS

State Table 2.—DRAINAGE

	Size of project (Based on area of agricultural land in project)	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
			Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
					Projects reporting	Acres	Projects reporting	Acres
1	All projects.....	307	11,045,146	959,476	233	9,793,769	161	1,251,377
2	500 to 999 acres.....	110	76,273	30,715	68	42,195	56	34,078
3	1,000 to 1,999 acres.....	76	105,305	41,065	53	65,380	39	39,925
4	2,000 to 4,999 acres.....	34	95,505	33,442	25	46,932	22	48,573
5	5,000 to 9,999 acres.....	5	36,520	8,980	5	31,180	2	5,340
6	10,000 to 19,999 acres.....	7	105,929	120	7	98,281	3	7,648
7	20,000 to 49,999 acres.....	18	608,036	18,840	18	587,096	4	20,940
8	50,000 to 99,999 acres.....	22	1,597,870	124,600	22	1,477,986	10	119,884
9	100,000 or more acres.....	35	8,419,708	701,714	35	7,444,719	25	974,989

State Table 3.—DRAINAGE PROJECTS, 1960.

	Type of organization	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
			Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
					Projects reporting	Acres	Projects reporting	Acres
1	All projects.....	307	11,045,146	959,476	233	9,793,769	161	1,251,377
2	Drains owned by one landowner.....	25	34,930	24,420	19	25,340	13	9,590
3	Cooperative or mutual drains.....	192	248,293	86,802	124	132,927	105	115,366
4	Legally organized public drains.....	90	10,761,923	848,254	90	9,635,502	43	1,126,421

State Table 4.—DRAINAGE PROJECTS, 1960.

	Year of organization	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
			Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
					Projects reporting	Acres	Projects reporting	Acres
1	All projects.....	307	11,045,146	959,476	233	9,793,769	161	1,251,377
2	1950-1959.....	160	370,380	212,672	86	211,772	118	158,608
3	Prior to 1950.....	147	10,674,766	746,804	147	9,581,997	43	1,092,769

PROJECTS, 1960, BY SIZE

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959									
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting	
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number		
248	41,809,993	207	23,831,372	205	2,333.2	47	935.6	2	0.4	2	2	2	1
84	246,055	80	232,448	80	148.2	9	12.2	...	...	...	...	1	2
61	287,916	56	267,963	55	143.0	8	24.3	...	...	1	1	...	3
30	290,737	27	267,734	27	118.3	4	8.8	...	...	...	...	1	4
4	103,721	2	13,500	2	23.0	...	...	...	...	...	...	...	5
4	197,351	3	132,389	2	7.6	2	4.2	...	...	...	...	...	6
13	561,499	3	214,607	3	26.0	3	8.4	...	...	...	...	...	7
18	3,903,405	10	2,958,699	10	156.9	4	82.3	1	0.1	...	...	...	8
34	36,219,309	26	19,743,832	26	1,710.2	17	795.4	1	0.3	1	1	...	9

BY TYPE OF ORGANIZATION

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959									
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting	
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number		
248	41,809,993	207	23,831,372	205	2,333.2	47	935.6	2	0.4	2	2	2	1
24	59,265	24	59,265	24	90.6	...	...	...	...	...	...	...	2
149	772,779	138	716,380	137	331.9	21	45.3	...	...	1	1	2	3
75	40,977,949	45	23,055,727	44	1,910.7	26	890.3	2	0.4	1	1	...	4

BY YEAR OF ORGANIZATION

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959									
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting	
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number		
248	41,809,993	207	23,831,372	205	2,333.2	47	935.6	2	0.4	2	2	2	1
160	2,361,562	159	2,162,895	159	470.7	19	44.1	...	...	...	...	2	2
88	39,448,431	48	21,668,477	46	1,862.5	28	891.5	2	0.4	2	2	...	3

DRAINAGE OF AGRICULTURAL LANDS

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

Item and Census year		The State	Aitkin	Anoka	Becker	Beltrami	Benton	Big Stone	Blue Earth	Brown
AREA										
1	Approximate land area.....acres 1960...	51,205,760	1,167,360	272,000	841,600	1,610,880	258,560	326,400	473,600	392,320
2	Land in farms.....acres 1959...	30,796,097	232,046	142,629	499,138	260,747	227,972	310,208	456,255	375,610
3	Drainage projects.....number 1960...	307	2	1	5	6	1	1	3	2
4	.....1950...	82	1	1	1	1	1	1	1	1
5	Total area in drainage projects ¹.....acres served 1960...	11,688,201	262,116	99,968	52,602	297,475	16,840	29,625	176,616	128,115
6	.....1950...	11,269,962	407,522	99,968	48,102	374,835	16,840	29,625	145,036	88,435
7	Area not used for agriculture or not drained.....acres served 1960...	1,127,393	7,000	...	...	194,691	...	...	...	...
8	Net area drained and used for agriculture.....acres served 1960...	10,560,808	255,116	99,968	52,602	102,784	16,840	29,625	176,616	128,115
9	Drainage established before 1950.....acres served 1960...	9,316,571	255,116	99,968	48,102	100,864	16,840	29,625	145,036	88,435
10	Area added, 1950-1959.....acres served 1960...	1,244,237	...	...	4,500	1,920	...	...	31,580	39,680
11	Area served by two or more projects.....acres served 1960...	475,138	640	...	460	36,996	...	...	...	815
PROJECTS, 1960, BY TYPE OF ORGANIZATION										
12	Drains owned by one landowner.....number of projects...	25	1	...	...	...	...	...	...	...
13	.....acres served ² ...	34,930	640	...	...	...	...	...	...	...
14	Cooperative or mutual drains.....number of projects...	192	...	...	4	4	...	...	2	1
15	.....acres served ² ...	248,293	...	...	4,960	3,460	...	...	4,800	815
16	Legally organized public drains.....number of projects...	90	1	1	1	2	1	1	1	1
17	.....acres served ² ...	10,761,923	255,116	99,968	48,102	136,320	16,840	29,625	171,816	128,115
PROJECTS, 1960, BY YEAR STARTED										
18	1950-1959.....number of projects...	160	1	...	4	4	...	...	2	...
19	.....acres served ² ...	370,380	640	...	4,960	3,460	...	...	4,800	...
20	Prior to 1960.....number of projects...	147	1	1	1	2	1	1	1	2
21	.....acres served ² ...	10,674,766	255,116	99,968	48,102	136,320	16,840	29,625	171,816	128,930
DRAINAGE OPERATIONS, 1950-1959 ³										
22	Cost of drainage works and services.....projects reporting...	248	2	1	4	5	...	1	3	2
23	.....dollars...	41,809,993	7,065	27,502	18,878	75,418	...	29,303	865,376	2,288,382
24	New drainage works constructed, enlarged, or installed.....projects reporting...	207	1	...	4	4	...	...	3	2
25	.....dollars...	23,831,372	2,065	...	17,922	7,808	...	...	504,084	1,224,569
26	Open ditches.....projects reporting...	205	1	...	4	4	...	...	3	2
27	.....length, miles...	2,333.2	2.0	...	14.8	6.2	...	...	48.6	104.5
28	Tile or covered drains.....projects reporting...	47	...	...	...	...	...	...	3	1
29	.....length, miles...	935.6	...	...	...	...	...	...	36.9	62.0
30	Levees or dikes.....projects reporting...	2	...	...	...	...	...	...	...	...
31	.....length, miles...	0.4	...	...	...	...	...	...	...	...
32	Pumps.....projects reporting...	2	...	...	...	...	...	...	...	...
33	.....number of pumps...	2	...	...	...	...	...	...	...	...
34	Other (see text).....projects reporting...	2	...	...	2	...	...	...	...	...
35	Cost of maintenance, operation, repair, and administration.....projects reporting...	97	1	1	2	1	...	1	3	2
36	.....dollars...	17,978,621	5,000	27,502	956	67,610	...	29,303	361,292	1,063,813

¹Land served by two or more projects counted only once.²Acres served by two projects are included for each project. See text.³Include projects taken over by another project prior to 1960. See text.

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data.]

Item and Census year	Carlton	Carver	Cass	Chippewa	Chisago	Clay	Clearwater	Cottonwood	Crow Wing
AREA									
1 Approximate land area.....acres 1960...	550,400	229,120	1,313,920	372,480	268,160	672,000	643,200	409,600	639,360
2 Land in farms.....acres 1959.....	196,325	213,745	250,849	350,579	210,672	625,866	253,193	407,270	181,678
3 Drainage projects..... number 1960...	1	1	1	1	2	12	2	1	1
4" number 1950.....	1	1	1	1	1	1	1	1	1
5 Total area in drainage projects ¹ acres served 1960...	20,080	28,026	90,379	183,709	42,684	274,415	98,330	142,510	40,672
6" acres served 1950.....	65,280	18,546	90,379	149,709	41,984	266,470	59,930	137,830	40,672
7 Area not used for agriculture or not drained..... acres served 1960...	1,520	...	...	...	...	...	47,040	...	...
8 Net area drained and used for agriculture..... acres served 1960...	18,560	28,026	90,379	183,709	42,684	274,415	51,290	142,510	40,672
9 Drainage established before 1950..... acres served 1960...	18,560	18,546	90,379	149,709	41,984	265,355	51,290	137,830	40,672
10 Area added, 1950-1959..... acres served 1960.....	...	9,480	...	34,000	700	9,060	...	4,680	...
11 Area served by two or more projects..... acres served 1960.....	...	...	...	...	...	5,925	16,960	...	...
PROJECTS, 1960, BY TYPE OF ORGANIZATION									
12 Drains owned by one landowner..... number of projects.....	...	...	...	...	...	...	...	...	...
13" acres served ².....	...	...	...	...	...	...	...	...	...
14 Cooperative or mutual drains..... number of projects.....	...	...	...	...	1	11	...	...	...
15" acres served ².....	...	...	...	...	700	10,990	...	...	...
16 Legally organized public drains..... number of projects.....	1	1	1	1	1	1	2	1	1
17" acres served ²	18,560	28,026	90,379	183,709	41,984	269,350	68,250	142,510	40,672
PROJECTS, 1960, BY YEAR STARTED									
18 1950-1959..... number of projects.....	...	...	...	...	1	2	...	...	...
19" acres served ².....	...	...	...	...	700	1,340	...	...	...
20 Prior to 1950..... number of projects.....	1	1	1	1	1	10	2	1	1
21" acres served ²	18,560	28,026	90,379	183,709	41,984	279,000	68,250	142,510	40,672
DRAINAGE OPERATIONS, 1950-1959 ³									
22 Cost of drainage works and services..... projects reporting.....	1	1	...	1	2	3	2	1	...
23" dollars.....	5,000	125,446	...	996,327	19,232	265,258	19,902	283,050	...
24 New drainage works constructed, enlarged, or installed..... projects reporting.....	...	...	...	1	1	3	1	1	...
25" dollars.....	...	...	...	478,780	7,300	76,022	12,038	50,648	...
26 Open ditches..... projects reporting.....	...	...	...	1	1	3	1	1	...
27" length, miles.....	...	...	...	67.4	3.0	24.3	15.0	7.1	...
28 Tile or covered drains..... projects reporting.....	...	...	...	1	...	...	...	1	...
29" length, miles.....	...	...	...	26.4	...	...	...	0.6	...
30 Levees or dikes..... projects reporting.....	...	...	...	...	...	...	...	...	...
31" length, miles.....	...	...	...	...	...	...	...	...	...
32 Pumps..... projects reporting.....	...	...	...	...	...	...	...	...	...
33" number of pumps.....	...	...	...	...	...	...	...	...	...
34 Other (see text)..... projects reporting.....	...	...	...	...	...	...	...	...	...
35 Cost of maintenance, operation, repair, and administration..... projects reporting.....	1	1	...	1	1	1	2	1	...
36" dollars.....	5,000	125,446	...	517,547	11,932	189,236	7,864	232,402	...

¹Land served by two or more projects counted only once.²Acres served by two projects are included for each project. See text.³Includes projects taken over by another project prior to 1960. See text.

DRAINAGE OF AGRICULTURAL LANDS

County Table 1.—DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data.]

Item and Census year		Dakota	Dodge	Douglas	Parish	Freeborn	Grant	Hennepin	Houston	Hubbard
AREA										
1	Approximate land area.....acres 1960...	365,440	278,400	407,680	456,320	449,280	356,480	361,600	361,600	596,480
2	Land in farms.....acres 1959...	298,074	267,835	358,331	446,588	431,991	331,081	188,665	321,072	167,543
3	Drainage projects.....number 1960...	2	12	1	1	16	2	3	1	1
4	1950...	1	1	1	1	1	1	1	1	1
5	Total area in drainage projects ¹.....acres served 1960...	10,885	37,580	78,950	270,626	194,214	69,606	42,832	14,528	27,213
6	1950...	7,936	30,771	78,950	259,866	140,544	65,203	41,252	14,528	27,213
7	Area not used for agriculture or not drained.....acres served 1960...	...	...	560	...	...	...	4,600	...	...
8	Net area drained and used for agriculture.....acres served 1960...	10,885	37,580	78,390	270,626	194,214	69,606	38,232	14,528	27,213
9	Drainage established before 1960.....acres served 1960...	7,936	28,890	78,390	259,866	142,064	65,203	38,232	14,528	27,213
10	Area added, 1950-1959.....acres served 1960...	2,949	8,690	...	10,760	52,150	4,403	...	...	...
11	Area served by two or more projects.....acres served 1960...	120	1,480	...	...	2,860	480	...	...	...
PROJECTS, 1960, BY TYPE OF ORGANIZATION										
12	Drains owned by one landowner.....number of projects...	...	...	...	...	...	...	...	...	...
13	acres served ²...	...	...	...	...	...	...	...	...	...
14	Cooperative or mutual drains.....number of projects...	1	11	...	...	15	1	1	...	...
15	acres served ² ...	569	12,240	...	...	22,650	1,380	600	...	...
16	Legally organized public drains.....number of projects...	1	1	1	1	1	1	2	1	1
17	acres served ² ...	10,436	26,820	78,390	270,626	174,424	68,706	37,632	14,528	27,213
PROJECTS, 1960, BY YEAR STARTED										
18	1950-1959.....number of projects...	1	9	...	...	13	1	...	...	...
19	acres served ² ...	569	9,050	...	...	19,910	1,380	...	...	...
20	Prior to 1960.....number of projects...	1	3	1	1	3	1	3	1	1
21	acres served ² ...	10,436	30,010	78,390	270,626	177,164	68,706	38,232	14,528	27,213
DRAINAGE OPERATIONS, 1950-1959 ³										
22	Cost of drainage works and services.....projects reporting...	2	11	1	1	16	2	...	...	...
23	dollars...	103,070	120,312	12,784	1,089,910	1,056,571	73,429	...	...	...
24	New drainage works constructed, enlarged, or installed.....projects reporting...	2	10	...	1	14	2	...	...	...
25	dollars...	80,670	110,032	...	198,823	523,824	53,158	...	...	...
26	Open ditches.....projects reporting...	2	10	...	1	14	2	...	...	...
27	length, miles...	7.4	17.7	...	19.8	68.0	4.2	...	...	...
28	Tile or covered drains.....projects reporting...	1	3	...	1	7	...	...	...	...
29	length, miles...	3.8	1.5	...	26.2	30.7	...	...	...	...
30	Levees or dikes.....projects reporting...	...	...	...	...	...	...	...	...	...
31	length, miles...	...	...	...	...	...	...	...	...	...
32	Pumps.....projects reporting...	...	...	...	...	...	...	...	...	...
33	number of pumps...	...	...	...	...	...	...	...	...	...
34	Other (see text).....projects reporting...	...	...	...	...	...	...	...	...	...
35	Cost of maintenance, operation, repair, and administration.....projects reporting...	1	4	1	1	7	1	...	...	...
36	dollars...	22,400	10,280	12,784	891,087	532,757	20,271	...	...	...

¹Land served by two or more projects counted only once.²Acres served by two projects are included for each project. See text.³Includes projects taken over by another project prior to 1960. See text.

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

	Item and Census year	Isanti	Itasca	Jackson	Kanabec	Kandiyohi	Kittson	Koochiching	Lac qui Parle	Lake of the Woods
	AREA									
1	Approximate land area.....acres 1980...	282,880	1,704,320	446,720	336,000	527,360	719,360	2,002,560	494,720	837,120
2	Land in farms.....acres 1959...	210,859	175,952	436,655	208,695	458,323	512,299	116,591	477,920	130,459
3	Drainage projects.....number 1980...	3	1	2	2	2	42	2	1	4
4	1950...	1	1	1	1	1	1	1	1	1
5	Total area in drainage projects ¹.....acres served 1980...	62,984	71,239	193,472	41,600	268,768	354,104	192,400	157,795	323,500
6	1950...	61,184	123,955	188,172	41,600	201,728	318,464	604,672	85,555	322,660
7	Area not used for agriculture or not drained.....acres served 1960...	...	16,932	...	...	...	57,600	111,500	...	235,308
8	Net area drained and used for agriculture.....acres served 1960...	62,984	54,307	193,472	41,600	268,768	296,504	80,900	157,795	88,192
9	Drainage established before 1950.....acres served 1960...	62,984	54,307	188,352	41,600	201,728	260,864	79,580	85,555	87,352
10	Area added, 1950-1959.....acres served 1960...	...	...	5,120	...	67,040	35,640	1,320	72,240	840
11	Area served by two or more projects.....acres served 1980...	...	...	40	...	160	40,780	...	...	2,000
	PROJECTS, 1960, BY TYPE OF ORGANIZATION									
12	Drains owned by one landowner.....number of projects...	...	...	...	...	...	21	...	...	1
13	acres served ²...	...	...	...	...	...	31,430	...	...	840
14	Cooperative or mutual drains.....number of projects...	2	...	1	1	1	20	1	...	2
15	acres served ³ ...	1,800	...	220	1,600	160	38,550	1,320	...	2,000
16	Legally organized public drains.....number of projects...	1	1	1	1	1	1	1	1	1
17	acres served ³ ...	61,184	54,307	193,292	40,000	268,768	269,824	79,580	157,795	87,352
	PROJECTS, 1960, BY YEAR STARTED									
18	1950-1959.....number of projects...	...	...	...	...	1	41	1	...	3
19	acres served ²...	...	...	...	...	160	69,980	1,320	...	2,840
20	Prior to 1950.....number of projects...	3	1	2	2	1	1	1	1	1
21	acres served ² ...	62,984	54,307	193,512	41,600	268,768	269,824	79,580	157,795	87,352
	DRAINAGE OPERATIONS, 1950-1959 ⁴									
22	Cost of drainage works and services.....projects reporting...	3	...	1	1	2	42	1	1	3
23	dollars...	6,059	...	749,446	495	897,376	381,760	1,100	1,767,752	8,013
24	New drainage works constructed, enlarged, or installed.....projects reporting...	2	...	1	...	2	42	1	1	3
25	dollars...	3,300	...	144,144	...	390,893	155,314	1,100	1,340,958	8,013
26	Open ditches.....projects reporting...	2	...	1	...	2	42	1	1	3
27	length, miles...	3.7	...	13.2	...	38.4	149.4	4.3	103.5	9.3
28	Tile or covered drains.....projects reporting...	...	...	1	...	1	...	...	1	...
29	length, miles...	...	...	18.2	...	9.6	...	...	44.9	...
30	Levees or dikes.....projects reporting...	...	...	...	...	...	...	...	1	...
31	length, miles...	...	...	...	...	...	...	...	0.3	...
32	Pumps.....projects reporting...	...	...	...	...	...	...	...	...	...
33	number of pumps...	...	...	...	...	...	...	...	...	...
34	Other (see text).....projects reporting...	...	...	...	...	...	...	...	...	...
35	Cost of maintenance, operation, repair, and administration.....projects reporting...	1	...	1	1	1	1	...	1	...
36	dollars...	2,759	...	605,302	495	506,483	226,446	...	426,794	...

¹Land served by two or more projects counted only once.²Acres served by two or more projects are included for each project. See text.³Includes projects taken over by another project prior to 1960. See text.

DRAINAGE OF AGRICULTURAL LANDS

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

Item and Census year	Le Sueur	Lincoln	Lyon	McLeod	Mahnomen	Marshall	Martin	Meeker	Mille Lacs
AREA									
1 Approximate land area.....acres 1960...	282,240	345,600	456,320	318,720	367,360	1,152,000	452,480	396,800	363,520
2 Land in farms.....acres 1959...	266,540	329,854	435,247	301,111	220,862	800,186	452,344	366,741	200,131
3 Drainage projects..... number 1960...	1	1	3	4	4	6	2	2	2
4 1950...	1	1	1	1	1	1	1	1	1
5 Total area in drainage projects ¹ acres served 1960...	91,167	58,906	127,601	82,090	50,600	779,036	287,746	64,767	21,504
6 1950...	64,285	58,906	105,711	70,790	44,800	823,450	277,504	56,064	20,864
7 Area not used for agriculture or not drained..... acres served 1960...	...	...	...	...	...	99,256	...	...	...
8 Net area drained and used for agriculture..... acres served 1960...	91,167	58,906	127,601	82,090	50,600	679,780	287,746	64,767	21,504
9 Drainage established before 1950..... acres served 1960...	64,285	58,906	105,711	71,650	44,800	663,450	277,504	60,264	20,864
10 Area added, 1950-1959..... acres served 1960...	26,882	...	21,890	10,440	5,800	16,330	10,242	4,503	640
11 Area served by two or more projects..... acres served 1960...	...	...	...	2,660	100	1,420	...	840	...
PROJECTS, 1960, BY TYPE OF ORGANIZATION									
12 Drains owned by one landowner..... number of projects...	...	...	...	...	...	1	...	...	...
13 acres served ²...	...	...	...	...	...	900	...	...	...
14 Cooperative or mutual drains..... number of projects...	...	...	2	3	3	4	1	1	1
15 acres served ³...	...	...	4,440	3,520	5,900	4,290	1,660	840	640
16 Legally organized public drains..... number of projects...	1	1	1	1	1	1	1	1	1
17 acres served ³ ...	91,167	58,906	123,161	81,230	44,800	676,010	286,086	64,767	20,864
PROJECTS, 1960, BY YEAR STARTED									
18 1950-1959..... number of projects...	...	...	2	...	3	5	...	1	1
19 acres served ²...	...	...	4,440	...	5,900	5,190	...	840	640
20 Prior to 1950..... number of projects...	1	1	1	4	1	1	2	1	1
21 acres served ² ...	91,167	58,906	123,161	84,750	44,800	676,010	287,746	64,767	20,864
DRAINAGE OPERATIONS, 1950-1959 ⁴									
22 Cost of drainage works and services.....projects reporting...	1	1	3	2	4	6	2	2	2
23 dollars...	442,598	85,172	1,223,540	289,742	25,690	666,296	1,121,211	52,343	7,784
24 New drainage works constructed, enlarged, or installed.....projects reporting...	1	...	3	1	3	6	2	2	(⁴)
25 dollars...	355,224	...	716,785	162,582	11,859	39,628	104,274	38,568	(⁴)
26 Open ditches.....projects reporting...	1	...	3	1	3	6	1	2	(⁴)
27 length, miles...	38.4	...	60.7	16.3	6.8	18.4	12.5	6.9	(⁴)
28 Tile or covered drains.....projects reporting...	1	...	3	1	...	...	2	...	...
29 length, miles...	9.1	...	47.6	0.7	...	...	17.5	...	...
30 Levees or dikes.....projects reporting...	1	...	...	...	...	...	...	...	...
31 length, miles...	0.1	...	...	...	...	...	...	...	...
32 Pumps.....projects reporting...	...	...	...	...	...	...	...	...	...
33 number of pumps...	...	...	...	...	...	...	...	...	...
34 Other (non text).....projects reporting...	...	...	...	...	...	...	...	...	...
35 Cost of maintenance, operation, repair, and administration.....projects reporting...	1	1	2	2	1	1	1	1	(⁴)
36 dollars...	87,374	85,172	506,755	127,160	13,831	626,668	1,016,937	13,775	(⁴)

¹Land served by two or more projects counted only once.²Acres served by two projects are included for each project. See text.³Includes projects taken over by another project prior to 1960. See text.⁴Included in State total only.

County Table 1. —DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data.]

Item and Census year	Morrison	Mower	Murray	Nicollet	Nobles	Norman	Otter Tail	Pennington	Pine
AREA									
1 Approximate land area.....acres 1960...	727,040	449,920	453,120	293,760	455,680	566,400	1,280,000	398,080	903,680
2 Land in farms.....acres 1959...	516,413	431,685	424,114	270,169	436,042	502,739	1,073,848	303,489	375,289
3 Drainage projects.....number 1960...	1	5	1	2	1	23	2	13	1
4 1950...	1	1	1	1	1	1	1	1	1
5 Total area in drainage projects ¹.....acres served 1960...	59,957	27,500	176,718	142,077	109,436	285,331	114,171	341,555	37,274
6 1950...	59,163	17,320	176,718	101,527	108,211	265,139	114,011	336,765	37,274
7 Area not used for agriculture or not drained.....acres served 1960...	...	...	...	...	...	500	...	...	6,960
8 Net area drained and used for agriculture.....acres served 1960...	59,957	27,500	176,718	142,077	109,436	284,831	114,171	341,555	30,314
9 Drainage established before 1950.....acres served 1960...	59,163	17,320	176,718	101,527	108,211	266,649	114,011	336,765	30,314
10 Area added, 1950-1959.....acres served 1960...	794	10,180	...	40,550	1,225	18,182	160	4,790	...
11 Area served by two or more projects.....acres served 1960...	...	...	...	1,000	...	63,260	...	137,552	...
PROJECTS, 1960, BY TYPE OF ORGANIZATION									
12 Drains owned by one landowner.....number of projects...	...	...	...	...	...	...	...	...	...
13 acres served ²...	...	...	...	...	...	...	...	...	...
14 Cooperative or mutual drains.....number of projects...	...	4	...	1	...	21	1	11	...
15 acres served ²...	...	2,920	...	1,000	...	16,740	1,180	14,772	...
16 Legally organized public drains.....number of projects...	1	1	1	1	1	2	1	2	1
17 acres served ² ...	59,957	24,580	176,718	142,077	109,436	332,041	112,991	467,785	30,314
PROJECTS, 1960, BY YEAR STARTED									
18 1950-1959.....number of projects...	...	4	...	1	...	12	1	11	...
19 acres served ²...	...	2,920	...	1,000	...	78,582	1,180	14,772	...
20 Prior to 1960.....number of projects...	1	1	1	1	1	11	1	2	1
21 acres served ² ...	59,957	24,580	176,718	142,077	109,436	270,199	112,991	467,785	30,314
DRAINAGE OPERATIONS, 1950-1959 ³									
22 Cost of drainage works and services.....projects reporting...	1	5	1	2	1	13	2	13	...
23 dollars...	4,672	97,455	256,090	1,787,546	45,916	1,222,508	36,456	1,225,999	...
24 New drainage works constructed, enlarged, or installed.....projects reporting...	1	5	...	2	1	12	...	13	...
25 dollars...	4,672	74,146	...	1,168,589	15,174	650,859	...	929,844	...
26 Open ditches.....projects reporting...	1	5	...	2	1	12	...	13	...
27 length, miles...	1.9	13.0	...	210.2	2.0	50.2	...	71.4	...
28 Tile or covered drains.....projects reporting...	...	1	...	2	1	...	...	...	...
29 length, miles...	...	0.3	...	51.9	1.5	...	...	...	...
30 Levees or dikes.....projects reporting...	...	...	...	...	...	...	...	...	...
31 length, miles...	...	...	...	...	...	...	...	...	...
32 Pumps.....projects reporting...	...	...	...	...	...	...	...	...	...
33 number of pumps...	...	...	...	...	...	...	...	...	...
34 Other (see text).....projects reporting...	...	...	...	...	...	...	...	...	...
35 Cost of maintenance, operation, repair, and administration.....projects reporting...	...	2	1	2	1	1	2	2	...
36 dollars...	...	23,309	256,090	618,957	30,742	571,649	36,456	296,155	...

¹Land served by two or more projects counted only once.²Acres served by two projects are included for each project. See text.³Includes projects taken over by another project prior to 1960. See text.

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

Item and Census year		Pipestone	Polk	Pope	Ramsey	Red Lake	Redwood	Renville	Rice	Rock
AREA										
1	Approximate land area.....acres 1960...	296,960	1,287,680	435,840	102,400	276,480	559,360	627,200	316,800	310,400
2	Land in farms.....acres 1959...	292,290	1,158,841	366,812	13,125	221,799	538,168	606,071	295,713	291,589
3	Drainage projects.....number 1960...	1	14	2	1	6	7	1	3	1
4	1950.....	1	1	1	1	1	1	1	1	1
5	Total area in drainage projects ¹.....acres served 1960...	22,514	756,780	35,532	11,593	152,176	309,350	468,838	33,328	6,760
6	1950.....	22,514	729,120	35,532	11,343	137,216	229,530	284,134	29,370	6,760
7	Area not used for agriculture or not drained.....acres served 1960...	...	16,560	...	...	...	...	...	...	...
8	Net area drained and used for agriculture.....acres served 1960...	22,514	740,220	35,532	11,593	152,176	309,350	468,838	33,328	6,760
9	Drainage established before 1950.....acres served 1960...	22,514	716,980	35,532	11,343	151,296	221,466	284,134	29,370	6,760
10	Area added, 1950-1959.....acres served 1960...	...	23,240	...	250	880	87,884	184,704	3,958	...
11	Area served by two or more projects.....acres served 1960...	...	90,180	160	...	48,210	200	...	...	...
PROJECTS, 1960, BY TYPE OF ORGANIZATION										
12	Drains owned by one landowner.....number of projects...	...	...	...	...	...	1	...	...	...
13	acres served ²...	...	...	...	...	...	1,120	...	...	...
14	Cooperative or mutual drains.....number of projects...	...	11	1	...	4	5	...	2	...
15	acres served ³...	...	8,840	160	...	2,880	6,440	...	878	...
16	Legally organized public drains.....number of projects...	1	3	1	1	2	1	1	1	1
17	acres served ³ ...	22,514	821,560	35,532	11,593	198,656	301,990	468,838	32,450	6,760
PROJECTS, 1960, BY YEAR STARTED										
18	1950-1959.....number of projects...	...	7	1	...	4	...	...	2	...
19	acres served ³...	...	84,720	160	...	2,880	...	...	878	...
20	Prior to 1950.....number of projects...	1	7	1	1	2	7	1	1	1
21	acres served ³ ...	22,514	745,680	35,532	11,593	198,656	309,550	468,838	32,450	6,760
DRAINAGE OPERATIONS, 1950-1959 ³										
22	Cost of drainage works and services.....projects reporting...	1	10	2	1	6	2	1	3	1
23	dollars...	13,127	1,784,742	6,387	39,162	743,565	4,027,655	4,791,478	193,960	221
24	New drainage works constructed, enlarged, or installed.....projects reporting...	...	9	1	1	5	2	1	3	...
25	dollars...	...	977,023	1,387	1,800	597,611	2,755,391	2,654,491	107,030	...
26	Open ditches.....projects reporting...	...	9	1	...	5	2	1	3	...
27	length, miles...	...	37.2	0.8	...	20.7	178.0	247.1	13.4	...
28	Tile or covered drains.....projects reporting...	...	...	...	1	...	2	1	3	...
29	length, miles...	...	...	...	0.4	...	124.0	128.9	10.7	...
30	Levees or dikes.....projects reporting...	...	...	...	...	...	...	...	...	...
31	length, miles...	...	...	...	...	...	...	...	...	...
32	Pumps.....projects reporting...	...	...	...	...	...	2	...	...	...
33	number of pumps...	...	...	...	...	...	2	...	...	...
34	Other (see text).....projects reporting...	...	...	...	...	...	...	...	...	...
35	Cost of maintenance, operation, repair, and administration.....projects reporting...	1	3	1	1	2	1	1	1	1
36	dollars...	13,127	807,719	5,000	37,362	145,954	1,272,264	2,136,987	86,930	221

¹Land served by two or more projects counted only once.²Acres served by two projects are included for each project. See text.³Includes projects taken over by another project prior to 1960. See text.

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

Item and Census year		Roseau	St. Louis	Scott	Sherburne	Sibley	Stearns	Steele	Stevens	Swift	Todd
AREA											
1	Approximate land area..... acres 1960...	1,072,640	4,019,840	225,280	280,320	371,840	867,840	272,000	364,800	478,080	606,080
2	Land in farms..... acres 1950...	544,544	306,612	203,574	199,741	361,317	788,398	265,040	349,687	443,703	510,033
3	Drainage projects..... number 1960...	5	2	1	1	7	1	18	3	2	1
4	1950...	1	1	1	1	1	1	1	1	1	1
5	Total area in drainage projects ¹ acres served 1960...	625,414	227,034	15,452	68,506	252,320	74,240	75,715	69,268	193,980	197,601
6	1950...	680,704	231,834	10,554	68,506	118,016	74,240	48,154	64,768	121,754	197,601
7	Area not used for agriculture or not drained..... acres served 1960...	225,926	98,000	...	...	...	...	...	...	800	...
8	Net area drained and used for agriculture..... acres served 1960...	399,488	129,034	15,452	68,506	252,320	74,240	75,715	69,268	193,180	197,601
9	Drainage established before 1950..... acres served 1960...	365,558	129,034	10,554	68,506	118,016	74,240	47,954	69,268	121,514	197,601
10	Area added, 1950-1959..... acres served 1960...	33,930	...	4,898	...	134,304	...	27,761	...	71,666	...
11	Area served by two or more projects..... acres served 1960...	4,130	...	...	...	1,760	...	730	...	760	...
PROJECTS, 1960, BY TYPE OF ORGANIZATION											
12	Drains owned by one landowner..... number of projects...	...	...	...	...	...	...	...	...	...	...
13	acres served ²...	...	...	...	...	...	...	...	...	...	...
14	Cooperative or mutual drains..... number of projects...	2	...	...	...	6	...	17	2	1	...
15	acres served ² ...	2,300	...	...	...	5,700	...	19,161	4,500	760	...
16	Legally organized public drains..... number of projects...	3	2	1	1	1	1	1	1	1	1
17	acres served ² ...	401,318	129,034	15,452	68,506	248,380	74,240	57,284	64,768	193,180	197,601
PROJECTS, 1960, BY YEAR STARTED											
18	1950-1959..... number of projects...	4	...	...	...	...	...	11	...	1	...
19	acres served ² ...	7,340	...	...	...	...	...	13,171	...	760	...
20	Prior to 1950..... number of projects...	1	2	1	1	7	1	7	3	1	1
21	acres served ² ...	396,278	129,034	15,452	68,506	254,080	74,240	63,274	69,268	193,180	197,601
DRAINAGE OPERATIONS, 1950-1959 ³											
22	Cost of drainage works and services..... projects reporting...	5	2	1	1	2	1	15	2	2	...
23	dollars...	525,896	151,717	59,561	47,485	3,384,540	5,960	519,437	80,368	1,582,981	...
24	New drainage works constructed, enlarged, or installed..... projects reporting...	5	...	1	...	1	...	12	...	2	...
25	dollars...	86,436	...	59,561	...	2,444,821	...	320,737	...	1,505,486	...
26	Open ditches..... projects reporting...	5	...	1	...	1	...	12	...	2	...
27	length, miles...	24.0	...	4.2	...	246.8	...	32.6	...	73.8	...
28	Tile or covered drains..... projects reporting...	...	...	...	...	1	...	2	...	...	...
29	length, miles...	...	...	...	...	60.7	...	26.6	...	...	...
30	Levees or dikes..... projects reporting...	...	...	...	...	...	...	...	...	...	...
31	length, miles...	...	...	...	...	...	...	...	...	...	...
32	Pumps..... projects reporting...	...	...	...	...	...	...	...	...	...	...
33	number of pumps...	...	...	...	...	...	...	...	...	...	...
34	Other (see text)..... projects reporting...	...	...	...	...	...	...	...	...	...	...
35	Cost of maintenance, operation, repair, and administration..... projects reporting...	1	2	...	1	2	1	7	2	1	...
36	dollars...	439,460	151,717	...	47,485	939,689	5,960	198,700	80,368	77,495	...

¹Land served by two or more projects counted only once.²Acres served by two projects are included for each project. See text.³Includes projects taken over by another project prior to 1960. See text.

County Table 1.—DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data.]

	Item and Census year	Traverse	Wabasha	Wadena	Waseca	Washington	Watonwan	Wilkin	Winona	Wright	Yellow Medicine
AREA											
1	Approximate land area.....acres 1980...	366,080	333,440	343,040	265,600	249,600	277,120	481,280	398,720	429,440	485,120
2	Land in farms.....acres 1959...	346,685	305,343	222,723	262,595	195,107	269,140	444,149	343,883	395,944	470,757
3	Drainage projects.....number 1960...	2	1	2	5	1	1	18	1	1	1
4	1950...	1	1	1	1	1	1	1	1	1	1
5	Total area in drainage projects ¹.....acres served 1960...	169,434	9,240	85,714	62,448	18,520	63,253	266,868	1,260	42,598	158,971
6	1950...	155,414	9,240	85,184	58,600	18,520	63,053	254,618	1,260	42,598	105,907
7	Area not used for agriculture or not drained.....acres served 1960...	...	...	...	800	...	...	1,840	...	...	...
8	Net area drained and used for agriculture.....acres served 1960...	169,434	9,240	85,714	61,648	18,520	63,253	265,028	1,260	42,598	158,971
9	Drainage established before 1950.....acres served 1960...	155,414	9,240	85,184	37,800	18,520	63,053	254,888	1,260	42,598	105,907
10	Area added, 1950-1959.....acres served 1960...	14,020	...	530	23,848	...	200	10,140	...	...	52,664
11	Area served by two or more projects.....acres served 1960...	640	...	20	...	...	...	11,800	...	...	...
PROJECTS, 1960, BY TYPE OF ORGANIZATION											
12	Drains owned by one landowner.....number of projects...	...	...	...	...	...	...	...	...	...	...
13	acres served ²...	...	...	...	...	...	...	...	...	...	...
14	Cooperative or mutual drains.....number of projects...	1	...	1	4	...	...	16	...	...	...
15	acres served ² ...	1,720	...	550	2,888	...	...	24,800	...	...	...
16	Legally organized public drains.....number of projects...	1	1	1	1	1	1	2	1	1	1
17	acres served ² ...	168,354	9,240	85,184	58,760	18,520	63,253	253,418	1,260	42,598	158,971
PROJECTS, 1960, BY YEAR STARTED											
18	1950-1959.....number of projects...	1	...	1	4	...	...	11	...	...	...
19	acres served ² ...	1,720	...	550	2,888	...	...	18,740	...	...	...
20	Prior to 1950.....number of projects...	1	1	1	1	1	1	7	1	1	1
21	acres served ² ...	168,354	9,240	85,184	58,760	18,520	63,253	259,478	1,260	42,598	158,971
DRAINAGE OPERATIONS, 1950-1959 ³											
22	Cost of drainage works and services.....projects reporting...	2	...	2	4	...	1	13	1	1	1
23	dollars...	479,385	...	9,481	661,262	...	185,491	357,861	164	27,805	2,245,068
24	New drainage works constructed, enlarged, or installed.....projects reporting...	2	...	(4)	4	...	1	12	...	...	1
25	dollars...	393,101	...	(4)	610,826	...	197,447	148,602	...	...	1,343,499
26	Open ditches.....projects reporting...	2	...	(4)	4	...	1	12	...	...	1
27	length, miles...	30.3	...	(4)	22.7	...	10.3	37.6	...	...	109.0
28	Tile or covered drains.....projects reporting...	...	...	...	4	...	...	...	...	...	1
29	length, miles...	...	...	...	49.9	...	...	...	...	...	145.0
30	Levees or dikes.....projects reporting...	...	...	...	...	...	...	...	...	...	...
31	length, miles...	...	...	...	...	...	...	...	...	...	...
32	Pumps.....projects reporting...	...	...	...	...	...	...	...	...	...	...
33	number of pumps...	...	...	...	...	...	...	...	...	...	...
34	Other (see text).....projects reporting...	...	...	...	...	...	...	...	...	...	...
35	Cost of maintenance, operation, repair, and administration.....projects reporting...	1	...	(4)	1	...	1	3	1	1	1
36	dollars...	86,280	...	(4)	50,436	...	28,044	209,259	164	27,805	901,575

¹Land served by two or more projects counted only once.²Acres served by two projects are included for each project. See text.³Includes projects taken over by another project prior to 1960. See text.⁴Included in State total only.

State Table 1.—DRAINAGE PROJECTS—NUMBER, AREA, COST, AND WORKS, 1920 TO 1960

[See text for comparability of data]

Item	1960 Census	1950 Census	1940 Census	1930 Census	1920 Census
AREA					
Approximate land area.....acres.....	30,222,720	30,238,720	30,348,800	29,671,680	29,671,680
Land in farms.....acres.....	18,630,263	20,710,770	19,156,058	17,332,195	18,196,979
Drainage projects.....number.....	590	441	271	NA	NA
Total area in drainage projects.....acres served.....	3,123,227	3,023,744	2,890,618	2,988,496	1,601,644
Area not used for agriculture or not drained.....acres served.....	82,620	NA	NA	NA	NA
Net area drained and used for agriculture.....acres served.....	3,040,607	NA	¹ 2,182,729	¹ 2,092,899	NA
Drainage established 10 years or more before Census date.....acres served.....	2,791,239	NA	NA	NA	NA
Drainage established within 10 years of Census date.....acres served.....	249,368	NA	NA	NA	NA
Area served by two or more projects.....acres served.....	294,417	288,315	236,252	171,448	3,040
PROJECTS BY TYPE OF ORGANIZATION					
Drains owned by one landowner.....number of projects.....	121	65	NA	NA	NA
.....acres served.....	155,650	111,253	50,155	27,400	56,750
Cooperative or mutual drains.....number of projects.....	230	127	...	...	...
.....acres served.....	292,531	140,006	...	...	...
Legally organized public drains.....number of projects.....	239	249	NA	NA	NA
.....acres served.....	2,906,319	2,772,485	2,840,463	2,961,096	1,544,694
PROJECTS BY YEAR STARTED					
Started 10 years or more before Census date.....number of projects.....	393	263	NA	NA	NA
.....acres served.....	2,919,182	2,760,499	2,843,135	1,874,866	259,892
Started within 10 years of Census date.....number of projects.....	197	178	NA	NA	NA
.....acres served.....	435,318	263,245	47,483	1,113,630	1,341,552
OPERATIONS, 10-YEAR PERIOD PRECEDING CENSUS DATE					
Cost of drainage works and services.....projects reporting.....	374	345	NA	NA	NA
.....dollars.....	9,597,061	5,702,914	NA	NA	NA
New drainage works constructed, enlarged, or installed.....projects reporting.....	223	² 2156	NA	NA	NA
.....cost, dollars.....	3,855,591	² 441,404	NA	NA	NA
Open ditches.....projects reporting.....	222	156	NA	NA	NA
.....length, miles.....	566.6	372	NA	NA	NA
Tile or covered drains.....projects reporting.....	...	...	NA	NA	NA
.....length, miles.....	...	...	NA	NA	NA
Levees or dikes.....projects reporting.....	3	...	NA	NA	NA
.....length, miles.....	3.3	...	NA	NA	NA
Pumps.....projects reporting.....	1	NA	NA	NA	NA
.....number of pumps.....	3	NA	NA	NA	NA
Other (see text).....projects reporting.....	4	NA	NA	NA	NA
Cost of maintenance, operation, repair, and administration.....projects reporting.....	206	NA	NA	NA	NA
.....dollars.....	5,701,470	5,261,510	NA	NA	NA
STATUS ON CENSUS DATE					
Capital investment.....dollars.....	NA	NA	23,299,677	23,601,443	7,076,164
Physical works:					
Open ditches.....length, miles.....	NA	NA	4,344.1	4,022.1	1,815.1
Tile drains.....length, miles.....	NA	NA	34.1	43.5	238.8
Levees and dikes.....length, miles.....	NA	NA	190.5	227.7	6.7
Pumping units.....number of units.....	NA	...	NA	5	NA

NA Not available.

¹Not fully comparable. See text.²Cost of new works for lands not previously drained.

State Table 2.—DRAINAGE

	Size of project (Based on area of agricultural land in project)	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
			Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
					Projects reporting	Acres	Projects reporting	Acres
1	All projects.....	590	3,354,500	608,310	487	3,102,093	137	252,407
2	500 to 999 acres.....	222	149,764	45,973	165	109,478	70	40,286
3	1,000 to 1,999 acres.....	122	161,464	40,059	93	122,576	34	38,888
4	2,000 to 4,999 acres.....	114	346,550	53,251	101	292,260	25	54,290
5	5,000 to 9,999 acres.....	53	361,648	69,967	50	334,835	6	26,813
6	10,000 to 19,999 acres.....	41	582,586	120,700	41	582,586	...	...
7	20,000 to 49,999 acres.....	25	710,266	111,632	25	704,136	1	6,130
8	50,000 to 99,999 acres.....	12	898,322	160,248	11	812,322	1	86,000
9	100,000 or more acres.....	1	143,900	6,480	1	143,900	...	...

State Table 3.—DRAINAGE PROJECTS, 1960,

	Type of organization	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
			Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
					Projects reporting	Acres	Projects reporting	Acres
1	All projects.....	590	3,354,500	608,310	487	3,102,093	137	252,407
2	Drains owned by one landowner.....	121	155,650	33,656	78	111,694	52	43,956
3	Cooperative or mutual drains.....	230	292,531	80,671	174	194,452	77	98,079
4	Legally organized public drains.....	239	2,906,319	493,983	235	2,795,947	8	110,372

State Table 4.—DRAINAGE PROJECTS, 1960,

	Year of organization	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
			Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
					Projects reporting	Acres	Projects reporting	Acres
1	All projects.....	590	3,354,500	608,310	487	3,102,093	137	252,407
2	1950-1959.....	197	435,318	138,188	94	195,039	125	240,279
3	Prior to 1950.....	393	2,919,182	470,122	393	2,907,054	12	12,128

PROJECTS, 1960, BY SIZE

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959									
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting	
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number		
374	9,597,061	223	3,855,591	222	566.6	...	...	3	3.3	1	3	4
131	298,643	117	248,558	117	151.2	...	...	1	1.0	...	...	1
78	251,548	55	186,807	55	106.3	...	...	1	1.5	1	3	...
65	698,423	27	231,262	27	96.7	...	...	...	...	...	...	2
34	709,637	7	104,020	7	37.0	...	...	...	...	...	...	...
33	1,915,198	6	1,006,498	5	36.0	...	...	1	0.8	...	...	1
20	2,368,179	7	777,250	7	71.4	...	...	...	...	...	...	...
12	2,844,698	4	1,301,196	4	68.0	...	...	...	...	...	...	...
1	470,735	...	...	...	...	...	...	...	...	...	...	...

BY TYPE OF ORGANIZATION

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959									
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting	
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number		
374	9,597,061	223	3,855,591	222	566.6	...	...	3	3.3	1	3	4
102	504,483	77	224,924	77	123.4	...	...	2	2.5	1	3	1
134	436,062	121	412,827	121	225.8	...	...	...	...	...	...	1
138	8,616,516	25	3,217,840	24	217.4	...	...	1	0.8	...	...	2

BY YEAR OF ORGANIZATION

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959								
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	
374	9,597,061	223	3,855,591	222	566.6	...	...	3	3.3	1	3	4
197	3,989,985	179	3,344,481	179	436.2	...	...	1	1.5	1	3	2
177	5,567,076	44	511,110	43	130.4	...	...	2	1.8	...	...	2

DRAINAGE OF AGRICULTURAL LANDS

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

Item and Census year	The State	Adams	Alcorn	Attala	Benton	Bolivar	Calhoun	Carroll	Chickasaw
AREA									
1 Approximate land area.....acres 1960...	30,222,720	286,720	259,200	463,360	263,680	586,880	378,880	408,320	323,840
2 Land in farms.....acres 1959...	18,630,263	160,610	178,810	271,995	143,131	468,180	242,010	279,345	242,520
3 Drainage projects.....number 1960...	590	2	18	1	1	32	55	16	13
4 1950...	441	1	28	5	3	26	36	14	12
5 Total area in drainage projects ¹.....acres served 1960...	3,123,227	700	50,062	1,000	6,881	375,740	96,338	36,884	31,090
6 1950...	3,023,744	15,413	75,912	16,319	9,722	356,201	79,173	32,635	27,852
7 Area not used for agriculture or not drained.....acres served 1960...	82,620	...	2,300	...	4,040	1,500	...	...	1,150
8 Net area drained and used for agriculture.....acres served 1960...	3,040,607	700	47,762	1,000	2,841	374,240	96,338	36,884	29,940
9 Drainage established before 1950.....acres served 1960...	2,791,239	600	47,762	1,000	2,841	371,800	84,478	36,884	29,740
10 Area added, 1950-1959.....acres served 1960...	249,368	100	...	...	...	2,440	11,860	...	200
11 Area served by two or more projects.....acres served 1960...	294,417	...	...	...	...	91,845	9,520	3,230	1,005
PROJECTS, 1960, BY TYPE OF ORGANIZATION									
12 Drains owned by one landowner.....number of projects...	121	2	5	...	...	1	3	3	...
13 acres served ² ...	155,650	700	12,875	...	...	1,000	1,650	1,895	...
14 Cooperative or mutual drains.....number of projects...	230	...	4	1	...	3	45	8	2
15 acres served ² ...	292,531	...	10,000	1,000	...	3,040	46,460	9,400	1,305
16 Legally organized public drains.....number of projects...	239	...	9	...	1	28	7	5	11
17 acres served ² ...	2,906,319	...	24,887	...	2,841	469,485	57,848	28,819	29,640
PROJECTS, 1960, BY YEAR STARTED									
18 1950-1959.....number of projects...	197	2	...	...	...	5	19	2	1
19 acres served ³ ...	435,318	700	...	...	...	4,540	26,088	1,680	720
20 Prior to 1950.....number of projects...	393	...	18	1	1	27	36	14	12
21 acres served ³ ...	2,919,182	...	47,762	1,000	2,841	468,985	79,870	38,434	30,225
DRAINAGE OPERATIONS, 1950-1959 ³									
22 Cost of drainage works and services.....projects reporting...	374	2	11	...	...	29	22	8	2
23 dollars...	9,557,061	1,980	106,400	...	...	549,964	96,345	58,081	12,725
24 New drainage works constructed, enlarged, or installed.....projects reporting...	223	2	...	...	...	5	18	3	1
25 dollars...	3,855,591	1,980	...	...	...	20,366	19,373	25,315	2,725
26 Open ditches.....projects reporting...	222	2	...	...	...	5	18	3	1
27 length, miles...	566.6	1.5	...	...	...	7.1	17.9	3.7	2.5
28 Tile or covered drains.....projects reporting...	...	...	...	...	...	...	...	...	...
29 length, miles...	...	...	...	...	...	...	...	...	...
30 Levees or dikes.....projects reporting...	3	...	...	...	...	1	...	1	...
31 length, miles...	3.3	...	...	...	...	1.5	...	0.5	...
32 Pumps.....projects reporting...	1	...	...	...	...	1	...	...	...
33 number of pumps...	3	...	...	...	...	3	...	...	...
34 Other (see text).....projects reporting...	4	...	...	...	...	...	...	...	...
35 Cost of maintenance, operation, repair, and administration.....projects reporting...	206	...	11	...	...	24	5	6	1
36 dollars...	5,701,470	...	106,400	...	...	529,598	76,972	32,766	10,000

¹Land served by two or more projects counted only once.²Acres served by two projects are included for each project. See text.³Includes projects taken over by another project prior to 1960. See text.

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data.]

Item and Census year	Choctaw	Clay	Conhoma	De Soto	Orenada	Hancock	Harrison	Holmes	Humphreys
AREA									
1 Approximate land area.....acres 1960...	266,880	264,960	364,800	283,520	277,120	310,400	374,400	488,960	262,400
2 Land in farms.....acres 1950...	148,571	197,476	323,464	271,044	174,408	60,350	73,695	396,704	216,496
3 Drainage projects.....number 1960...	5	11	47	7	2	1	1	11	17
4 1950...	11	11	48	6	10	1	1	3	6
5 Total area in drainage projects ¹.....acres served 1960...	10,864	40,482	197,518	52,464	10,320	875	12,200	17,073	194,255
6 1950...	19,503	40,312	184,281	44,014	19,279	875	12,200	86,256	179,845
7 Area not used for agriculture or not drained.....acres served 1960...	...	...	2,770	...	...	...	...	...	...
8 Net area drained and used for agriculture.....acres served 1960...	10,864	40,482	194,748	52,464	10,320	875	12,200	17,073	194,255
9 Drainage established before 1950.....acres served 1960...	10,864	40,332	189,553	44,014	10,320	875	12,200	12,403	191,315
10 Area added, 1950-1959.....acres served 1960...	...	150	5,195	8,450	...	...	...	4,670	2,940
11 Area served by two or more projects.....acres served 1960...	...	620	27,326	950	...	...	...	650	17,104
PROJECTS, 1960, BY TYPE OF ORGANIZATION									
12 Drains owned by one landowner.....number of projects...	...	2	28	...	...	1	...	7	4
13 acres served ²...	...	2,320	65,538	...	...	875	...	4,640	3,587
14 Cooperative or mutual drains.....number of projects...	...	3	3	3	1	...	...	1	6
15 acres served ³...	...	4,673	3,850	2,100	4,944	...	...	750	6,812
16 Legally organized public drains.....number of projects...	5	6	16	4	1	...	1	3	7
17 acres served ³ ...	10,864	34,109	152,776	51,314	5,376	...	12,200	12,333	202,665
PROJECTS, 1960, BY YEAR STARTED									
18 1950-1959.....number of projects...	...	...	5	4	...	...	...	8	11
19 acres served ²...	...	...	5,520	17,372	...	...	...	5,320	17,699
20 Prior to 1950.....number of projects...	5	11	42	3	2	1	1	3	6
21 acres served ² ...	10,864	41,102	216,644	36,042	10,320	875	12,200	12,403	195,365
DRAINAGE OPERATIONS, 1950-1959 ³									
22 Cost of drainage works and services.....projects reporting...	...	3	36	5	1	...	...	9	15
23 dollars...	...	5,500	503,677	200,101	11,042	...	...	27,133	619,290
24 New drainage works constructed, enlarged, or installed.....projects reporting...	...	2	14	4	1	...	...	8	13
25 dollars...	...	2,700	59,279	27,343	9,133	...	...	20,494	254,045
26 Open ditches.....projects reporting...	...	2	13	4	1	...	...	8	13
27 length, miles...	...	8.0	29.2	9.9	0.3	...	...	9.4	31.4
28 Tile or covered drains.....projects reporting...	...	...	...	...	...	...	...	...	...
29 length, miles...	...	...	...	...	...	...	...	...	...
30 Levees or dikes.....projects reporting...	...	...	...	...	1	...	...	...	...
31 length, miles...	...	...	...	...	0.3	...	...	...	...
32 Pumps.....projects reporting...	...	...	...	...	...	...	...	...	...
33 number of pumps...	...	...	...	...	...	...	...	...	...
34 Other (see text).....projects reporting...	...	...	1	...	...	...	...	...	...
35 Cost of maintenance, operation, repair, and administration.....projects reporting...	...	2	33	3	1	...	...	1	3
36 dollars...	...	2,800	444,398	172,758	1,909	...	...	6,639	365,245

¹Land served by two or more projects counted only once.²Acres served by two projects are included for each project. See text.³Includes projects taken over by another project prior to 1960. See text.

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

	Item and Census year	Issaquena	Itawamba	Jefferson	Lafayette	Leake	Lee	Leflore	Madison	Marion
AREA										
1	Approximate land area.....acres 1960...	265,600	346,240	332,800	387,840	375,040	291,200	376,320	480,640	352,000
2	Land in farms.....acres 1950...	113,337	181,891	205,243	254,277	221,164	212,117	334,196	348,355	217,746
3	Drainage projects.....number 1960...	2	11	1	2	2	18	33	1	2
4	.....1950...	1	8	...	2	3	17	11	1	...
5	Total area in drainage projects ¹.....acres served 1960...	79,500	32,111	1,000	6,610	6,202	47,891	103,765	2,225	1,470
6	.....1950...	15,500	25,111	...	11,099	8,962	49,017	81,086	2,080	...
7	Area not used for agriculture or not drained.....acres served 1960...	1,320	3,600	...	2,500	...	...	...	...	...
8	Net area drained and used for agriculture.....acres served 1960...	78,180	28,511	1,000	4,110	6,202	47,891	103,765	2,225	1,470
9	Drainage established before 1950.....acres served 1960...	14,180	26,511	...	4,110	6,202	47,891	79,185	2,080	...
10	Area added, 1950-1959.....acres served 1960...	64,000	2,000	1,000	...	...	...	24,580	145	1,470
11	Area served by two or more projects.....acres served 1960...	...	1,046	...	...	...	3,381	7,516	...	...
PROJECTS, 1960, BY TYPE OF ORGANIZATION										
12	Drains owned by one landowner.....number of projects...	...	...	1	...	...	1	11	...	1
13	.....acres served ²...	...	...	1,000	...	...	320	8,891	...	620
14	Cooperative or mutual drains.....number of projects...	...	2	...	...	...	1	12	1	1
15	.....acres served ²...	...	7,000	...	...	...	1,000	18,755	2,225	850
16	Legally organized public drains.....number of projects...	2	9	...	2	2	16	10	...	...
17	.....acres served ² ...	78,180	22,597	...	4,110	6,202	49,952	83,635	...	...
PROJECTS, 1960, BY YEAR STARTED										
18	1950-1959.....number of projects...	1	2	1	...	...	1	23	...	2
19	.....acres served ² ...	64,000	2,266	1,000	...	...	1,000	27,646	...	1,470
20	Prior to 1950.....number of projects...	1	9	...	2	2	17	10	1	...
21	.....acres served ² ...	14,180	27,291	...	4,110	6,202	50,272	83,635	2,225	...
DRAINAGE OPERATIONS, 1950-1959 ³										
22	Cost of drainage works and services.....projects reporting...	2	4	1	...	1	6	33	1	2
23	.....dollars...	659,728	36,284	3,961	...	3,000	71,100	228,985	3,235	2,514
24	New drainage works constructed, enlarged, or installed.....projects reporting...	2	2	1	...	...	2	14	1	2
25	.....dollars...	635,696	32,500	3,961	...	...	3,200	47,455	3,235	2,514
26	Open ditches.....projects reporting...	2	2	1	...	...	2	14	1	2
27	.....length, miles...	22.2	8.7	3.0	...	...	2.0	19.6	2.5	1.7
28	Tile or covered drains.....projects reporting...	...	...	...	...	...	...	...	...	...
29	.....length, miles...	...	...	...	...	...	...	...	...	...
30	Levees or dikes.....projects reporting...	...	...	...	...	...	...	...	...	...
31	.....length, miles...	...	...	...	...	...	...	...	...	...
32	Pumps.....projects reporting...	...	...	...	...	...	...	...	...	...
33	.....number of pumps...	...	...	...	...	...	...	...	...	...
34	Other (see text).....projects reporting...	...	1	...	...	...	1	...	...	...
35	Cost of maintenance, operation, repair, and administration.....projects reporting...	1	2	...	...	1	4	19	...	...
36	.....dollars...	24,032	3,784	...	...	3,000	67,900	181,530	...	...

¹Land served by two or more projects counted only once.²Acres served by two projects are included for each project. See text.³Includes projects taken over by another project prior to 1960. See text.

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data.]

Item and Census year		Marshall	Monroe	Montgomery	Newton	Noxubee	Oktibbeha	Panola	Pearl River	Pontotoc
AREA										
1	Approximate land area.....acres 1960...	443,520	492,160	297,920	371,200	444,800	290,560	438,400	529,920	320,640
2	Land in farms.....acres 1959...	336,147	320,027	182,875	218,195	387,402	215,641	374,614	203,122	237,023
3	Drainage projects.....number 1960...	1	9	8	4	7	2	30	2	10
4	1950...	4	7	8	4	...	2	27	...	12
5	Total area in drainage projects ¹.....acres served 1960...	19,038	11,429	7,556	14,363	5,932	14,350	111,973	1,960	23,116
6	1950...	19,038	10,429	13,726	14,363	...	14,350	111,889	...	20,381
7	Area not used for agriculture or not drained.....acres served 1960...	...	...	...	1,000	...	...	...	...	...
8	Net area drained and used for agriculture.....acres served 1960...	19,038	11,429	7,556	13,363	5,932	14,350	111,973	1,960	23,116
9	Drainage established before 1950.....acres served 1960...	19,038	10,429	7,006	13,363	...	14,350	105,943	...	20,581
10	Area added, 1950-1959.....acres served 1960...	...	1,000	550	...	5,932	...	6,030	1,960	2,535
11	Area served by two or more projects.....acres served 1960...	...	960	...	...	...	100	19,330	...	...
PROJECTS, 1960, BY TYPE OF ORGANIZATION										
12	Drains owned by one landowner.....number of projects...	...	1	...	...	5	...	6	...	...
13	acres served ²...	...	500	...	...	3,652	...	4,200	...	...
14	Cooperative or mutual drains.....number of projects...	...	1	7	1	2	...	12	2	3
15	acres served ²...	...	500	5,850	860	2,280	...	12,609	1,960	2,000
16	Legally organized public drains.....number of projects...	1	7	1	3	...	2	12	...	7
17	acres served ² ...	19,038	11,389	1,706	12,503	...	14,450	116,844	...	21,116
PROJECTS, 1960, BY YEAR STARTED										
19	1950-1959.....number of projects...	1	2	1	...	7	...	4	2	1
20	acres served ² ...	19,038	1,000	550	...	5,932	...	7,350	1,960	7,000
19	Prior to 1950.....number of projects...	...	7	7	4	...	2	26	...	9
21	acres served ²...	...	11,389	7,006	13,363	...	14,450	126,303	...	16,116
DRAINAGE OPERATIONS, 1950-1959 ³										
22	Cost of drainage works and services.....projects reporting...	1	3	1	3	7	1	20	2	2
23	dollars...	80,850	20,400	4,125	15,750	8,697	1,132	127,659	2,767	165,263
24	New drainage works constructed, enlarged, or installed.....projects reporting...	...	2	1	...	7	...	14	2	1
25	dollars...	...	2,600	4,125	...	8,197	...	29,525	2,767	20,020
26	Open ditches.....projects reporting...	...	2	1	...	7	...	14	2	1
27	length, miles...	...	2.1	2.7	...	5.9	...	13.3	4.2	17.0
28	Tile or covered drains.....projects reporting...	...	...	...	...	...	...	...	...	...
29	length, miles...	...	...	...	...	...	...	...	...	...
30	Levees or dikes.....projects reporting...	...	...	...	...	...	...	...	...	...
31	length, miles...	...	...	...	...	...	...	...	...	...
32	Pumps.....projects reporting...	...	...	...	...	...	...	...	...	...
33	number of pumps...	...	...	...	...	...	...	...	...	...
34	Other (see text).....projects reporting...	...	...	...	...	...	...	...	...	...
35	Cost of maintenance, operation, repair, and administration.....projects reporting...	1	1	...	3	2	1	6	...	2
36	dollars...	80,850	17,800	...	15,750	500	1,132	98,134	...	145,243

¹Land served by two or more projects counted only once.²Acres served by two projects are included for each project. See text.³Includes projects taken over by another project prior to 1960. See text.

DRAINAGE OF AGRICULTURAL LANDS

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data.]

	Item and Census year	Prentiss	Quitman	Scott	Sharkey	Sunflower	Tallahatchie	Tate	Tippah	Tishomingo
AREA										
1	Approximate land area.....acres 1960...	267,520	263,680	393,600	279,040	1443,520	412,160	245,120	296,960	288,640
2	Land in farms.....acres 1959...	191,386	234,363	217,353	144,240	1449,994	336,764	225,315	210,509	130,451
3	Drainage projects.....number 1960...	18	34	1	9	60	22	9	14	3
4	1950...	17	18	2	5	49	14	9	14	3
5	Total area in drainage projects ¹.....acres served 1960...	27,528	187,430	3,260	112,246	172,249	200,346	49,807	23,048	4,456
6	1950...	27,574	185,430	10,619	101,586	164,011	190,098	49,707	21,901	4,456
7	Area not used for agriculture or not drained.....acres served 1960...	1,300	...	...	10,100	...	7,800	...	1,800	...
8	Net area drained and used for agriculture.....acres served 1960...	26,228	187,430	3,260	102,146	172,249	192,546	49,807	21,248	4,456
9	Drainage established before 1950.....acres served 1960...	26,228	185,430	3,260	91,486	160,481	188,418	49,707	19,904	4,456
10	Area added, 1950-1959.....acres served 1960...	...	2,000	...	10,660	11,768	4,128	100	1,344	...
11	Area served by two or more projects.....acres served 1960...	1,386	37,320	...	7,600	11,887	7,968	1,260	...	180
PROJECTS, 1960, BY TYPE OF ORGANIZATION										
12	Drains owned by one landowner.....number of projects...	1	1	...	...	6	4	...	...	...
13	acres served ² ...	320	254	...	...	4,480	6,903	...	...	...
14	Cooperative or mutual drains.....number of projects...	...	14	...	2	37	8	3	...	...
15	acres served ²...	...	13,700	...	760	37,443	7,778	2,180	...	...
16	Legally organized public drains.....number of projects...	17	19	1	7	17	10	6	14	3
17	acres served ² ...	27,294	213,927	3,260	108,986	142,213	185,833	48,887	21,248	4,636
PROJECTS, 1960, BY YEAR STARTED										
18	1950-1959.....number of projects...	1	16	...	4	11	9	1	1	...
19	acres served ² ...	1,046	42,680	...	18,260	21,060	12,696	1,360	1,344	...
20	Prior to 1950.....number of projects...	17	18	1	5	49	13	8	13	3
21	acres served ² ...	26,568	185,201	3,260	91,486	163,076	187,818	49,707	19,904	4,636
DRAINAGE OPERATIONS, 1950-1959 ⁴										
22	Cost of drainage works and services.....projects reporting...	14	28	1	8	25	17	6	5	2
23	dollars...	49,072	814,755	1,150	566,527	310,950	323,034	91,550	79,923	7,250
24	New drainage works constructed, enlarged, or installed.....projects reporting...	2	16	...	4	11	10	...	...	...
25	dollars...	15,100	638,361	...	440,396	77,442	80,968	...	...	...
26	Open ditches.....projects reporting...	2	16	...	4	11	10	...	...	...
27	length, miles...	5.0	58.1	...	17.4	24.9	24.6	...	...	...
28	Tile or covered drains.....projects reporting...	...	...	...	...	...	...	...	...	...
29	length, miles...	...	...	...	...	...	...	...	...	...
30	Levees or dikes.....projects reporting...	...	...	...	...	...	...	...	...	...
31	length, miles...	...	...	...	...	...	...	...	...	...
32	Pumps.....projects reporting...	...	...	...	...	...	...	...	...	...
33	number of pumps...	...	...	...	...	...	...	...	...	...
34	Other (see text).....projects reporting...	...	...	...	...	1	...	...	...	...
35	Cost of maintenance, operation, repair, and administration.....projects reporting...	12	12	1	4	14	8	6	5	2
36	dollars...	33,972	176,394	1,150	126,131	233,508	242,066	91,550	79,923	7,250

¹The excess of farm acreage over approximate land area is due to the fact that the entire acreage of a farm is tabulated as in the county in which the headquarters is located, even though a part of the farm may be situated in an adjoining county.

²Land served by two or more projects counted only once.

³Acres served by two projects are included for each project. See text.

⁴Includes projects taken over by another project prior to 1960. See text.

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

Item and Census year	Tunica	Union	Warren	Washington	Webster	Winston	Yalobusha	Yazoo	All other counties ¹
AREA									
1 Approximate land area.....acres 1960...	293,120	270,080	362,240	465,920	266,240	387,840	315,520	600,320	1,159,040
2 Land in farms.....acres 1959...	208,984	183,900	221,347	377,815	165,974	219,507	193,187	422,092	615,039
3 Drainage projects.....number 1960...	25	11	2	15	14	3	3	48	...
4 1950...	9	1	2	7	10	3	5	9	8
5 Total area in drainage projects ².....acres served 1960...	130,941	41,202	1,300	375,009	16,322	17,067	4,794	130,985	...
6 1950...	102,345	835	1,300	369,361	14,933	17,067	16,821	103,445	45,432
7 Area not used for agriculture or not drained.....acres served 1960...	...	...	...	9,960	...	...	...	31,480	...
8 Net area drained and used for agriculture.....acres served 1960...	130,941	41,202	1,300	365,049	16,322	17,067	4,794	99,505	...
9 Drainage established before 1960.....acres served 1960...	102,185	38,797	1,300	351,009	13,642	17,067	4,794	75,225	...
10 Area added, 1950-1959.....acres served 1960...	28,756	2,405	...	14,040	2,680	...	...	24,280	...
11 Area served by two or more projects.....acres served 1960...	3,914	500	...	9,350	600	...	...	27,869	...
PROJECTS, 1960, BY TYPE OF ORGANIZATION									
12 Drains owned by one landowner.....number of projects...	1	...	...	1	3	...	...	26	...
13 acres served ³ ...	500	...	...	750	1,560	...	...	26,620	...
14 Cooperative or mutual drains.....number of projects...	18	...	2	7	6	1	...	15	...
15 acres served ³ ...	48,197	...	1,300	11,890	4,320	1,200	...	13,540	...
16 Legally organized public drains.....number of projects...	6	11	...	7	5	2	3	7	...
17 acres served ³ ...	86,158	41,702	...	361,759	11,042	15,867	4,794	91,874	...
PROJECTS, 1960, BY YEAR STARTED									
18 1960-1959.....number of projects...	16	2	...	8	5	...	...	37	...
19 acres served ³ ...	42,237	3,574	...	23,390	2,680	...	...	45,140	...
20 Prior to 1960.....number of projects...	9	9	2	7	9	3	3	11	...
21 acres served ³ ...	92,618	38,128	1,300	351,009	14,242	17,067	4,794	86,894	...
DRAINAGE OPERATIONS, 1950-1959⁴									
22 Cost of drainage works and services.....projects reporting...	21	4	...	14	5	...	1	48	...
23 dollars...	87,886	825,217	...	1,942,747	6,958	...	1,650	820,704	...
24 New drainage works constructed, enlarged, or installed.....projects reporting...	14	2	...	8	5	...	...	45	...
25 dollars...	56,274	41,000	...	563,553	6,958	...	...	696,991	...
26 Open ditches.....projects reporting...	14	2	...	8	5	...	...	45	...
27 length, miles...	29.9	6.5	...	51.2	3.3	...	...	119.9	...
28 Tills or covered drains.....projects reporting...	...	...	...	...	...	...	...	...	...
29 length, miles...	...	...	...	...	...	...	...	...	...
30 Levees or dikes.....projects reporting...	...	...	...	...	...	...	...	1	...
31 length, miles...	...	...	...	...	...	...	...	1.0	...
32 Pumps.....projects reporting...	...	...	...	...	...	...	...	...	...
33 number of pumps...	...	...	...	...	...	...	...	...	...
34 Other (see text).....projects reporting...	...	...	...	...	...	...	...	...	...
35 Cost of maintenance, operation, repair, and administration.....projects reporting...	9	4	...	8	...	...	1	32	...
36 dollars...	31,612	784,217	...	1,379,194	...	...	1,650	123,713	...

¹Includes Franklin, Neshoba, and Wilkinson counties.²Land served by two or more projects counted only once.³Acres served by two projects are included for each project. See text.⁴Includes projects taken over by another project prior to 1960. See text.

State Table 1.—DRAINAGE PROJECTS—NUMBER, AREA, COST, AND WORKS, 1920 TO 1960

[See text for comparability of data]

Item	1960 Census	1950 Census	1940 Census	1930 Census	1920 Census
AREA					
Approximate land area.....acres...	44,248,320	44,304,640	44,332,800	43,985,280	43,985,280
Land in farms.....acres.....	33,155,226	35,123,143	34,739,598	33,743,019	34,774,679
Drainage projects.....number.....	425	318	286	NA	NA
Total area in drainage projects.....acres served...	3,123,436	3,147,484	3,087,063	3,130,022	2,596,204
Area not used for agriculture or not drained.....acres served...	26,100	NA	NA	NA	NA
Not area drained and used for agriculture.....acres served...	3,097,316	NA	¹ 2,673,169	¹ 2,427,599	NA
Drainage established 10 years or more before Census date.....acres served...	3,059,174	NA	NA	NA	NA
Drainage established within 10 years of Census date.....acres served...	38,142	NA	NA	NA	NA
Area served by two or more projects.....acres served...	517,507	671,651	1,347,916	961,548	508,685
PROJECTS BY TYPE OF ORGANIZATION					
Drains owned by one landowner.....number of projects...	55	1	NA	NA	NA
.....acres served...	42,154	4,250	5,600	9,955	9,896
Cooperative or mutual drains.....number of projects...	56	2	...	...	...
.....acres served...	57,739	5,290	...	...	...
Legally organized public drains.....number of projects...	314	315	NA	NA	NA
.....acres served...	3,570,736	3,137,944	3,081,463	3,140,067	2,586,308
PROJECTS BY YEAR STARTED					
Started 10 years or more before Census date.....number of projects...	314	304	NA	NA	NA
.....acres served...	3,502,665	3,101,104	3,025,591	2,676,021	² 1,723,317
Started within 10 years of Census date.....number of projects...	111	14	NA	NA	NA
.....acres served...	167,964	46,380	61,472	474,001	² 866,151
OPERATIONS, 10-YEAR PERIOD PRECEDING CENSUS DATE					
Cost of drainage works and services.....projects reporting...	302	225	NA	NA	NA
.....dollars...	12,138,381	8,281,620	NA	NA	NA
New drainage works constructed, enlarged, or installed.....projects reporting...	117	39	NA	NA	NA
.....cost, dollars...	936,412	³ 114,063	NA	NA	NA
Open ditches.....projects reporting...	113	8	NA	NA	NA
.....length, miles...	296.7	30	NA	NA	NA
Tile or covered drains.....projects reporting...	36	...	NA	NA	NA
.....length, miles...	8.5	...	NA	NA	NA
Levees or dikes.....projects reporting...	13	4	NA	NA	NA
.....length, miles...	42.6	17	NA	NA	NA
Pumps.....projects reporting...	3	NA	NA	NA	NA
.....number of pumps...	5	NA	NA	NA	NA
Other (see text).....projects reporting...	8	NA	NA	NA	NA
Cost of maintenance, operation, repair, and administration.....projects reporting...	224	NA	NA	NA	NA
.....dollars...	11,201,969	8,167,557	NA	NA	NA
STATUS ON CENSUS DATE					
Capital investment.....dollars...	NA	NA	49,050,414	47,340,174	20,723,128
Physical works:					
Open ditches.....length, miles...	NA	NA	5,191.5	4,960.5	3,438.7
Tile drains.....length, miles...	NA	NA	170.3	123.4	38.8
Levees and dikes.....length, miles...	NA	NA	687.1	931.4	456.9
Pumping units.....number of units...	NA	16	16	16	14

NA Not available.

¹Not fully comparable. See text.²1920 figures exclude 6,736 acres for which date of organization was not reported.³Cost of new works for lands not previously drained.

DRAINAGE OF AGRICULTURAL LANDS

State Table 2.—DRAINAGE

Size of project (Based on area of agricultural land in project)	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
		Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
				Projects reporting	Acres	Projects reporting	Acres
1 All projects.....	425	3,670,629	1,090,820	402	3,624,790	36	45,839
2 500 to 999 acres.....	99	65,228	41,329	91	59,856	12	5,372
3 1,000 to 1,999 acres.....	85	118,155	36,513	74	102,757	15	15,398
4 2,000 to 4,999 acres.....	108	331,669	87,416	105	322,232	4	9,437
5 5,000 to 9,999 acres.....	50	345,052	46,421	49	338,071	2	6,981
6 10,000 to 19,999 acres.....	43	603,643	165,130	43	600,939	2	2,704
7 20,000 to 49,999 acres.....	29	847,008	300,235	29	847,008	...	...
8 50,000 to 99,999 acres.....	8	527,879	166,323	8	521,932	1	5,947
9 100,000 or more acres.....	3	831,995	247,453	3	831,995	...	...

State Table 3.—DRAINAGE PROJECTS, 1960,

Type of organization	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
		Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
				Projects reporting	Acres	Projects reporting	Acres
1 All projects.....	425	3,670,629	1,090,820	402	3,624,790	36	45,839
2 Drains owned by one landowner.....	55	42,154	33,504	48	35,864	8	6,290
3 Cooperative or mutual drains.....	56	57,739	37,292	45	44,434	19	13,305
4 Legally organized public drains.....	314	3,570,736	1,020,024	309	3,544,492	9	26,244

State Table 4.—DRAINAGE PROJECTS, 1960,

Year of organization	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
		Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
				Projects reporting	Acres	Projects reporting	Acres
1 All projects.....	425	3,670,629	1,090,820	402	3,624,790	36	45,839
2 1950-1959.....	111	167,964	129,510	88	126,679	32	41,285
3 Prior to 1950.....	314	3,502,665	961,310	314	3,498,111	4	4,554

PROJECTS, 1960, BY SIZE

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959								
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	
302	12,138,381	117	936,412	113	296.7	36	8.5	13	42.6	3	5	8
79	266,622	69	224,347	69	147.7	24	2.4	3	7.2	...	...	...
55	384,468	27	184,131	27	86.1	9	5.8	4	14.7	1	2	3
71	1,038,074	11	134,933	10	38.2	2	0.2	4	6.8	...	...	2
29	708,351	7	167,875	5	16.0	1	0.1	2	13.9	...	...	2
31	1,438,395	2	25,126	1	1.2	...	...	...	...	1	2	...
27	2,248,600	...	...	...	...	...	...	...	...	...	...	...
7	1,672,515	1	200,000	1	7.5	...	...	...	...	1	1	1
3	4,381,356	...	...	...	...	...	...	...	...	...	...	...

BY TYPE OF ORGANIZATION

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959								
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	
302	12,138,381	117	936,412	113	296.7	36	8.5	13	42.6	3	5	8
55	249,713	52	205,748	52	150.9	16	6.5	3	7.2	...	...	1
55	279,271	48	211,849	48	101.0	20	2.0	3	10.6	1	2	1
192	11,609,397	17	518,815	13	44.8	...	...	7	24.8	2	3	6

BY YEAR OF ORGANIZATION

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959								
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	
302	12,138,381	117	936,412	113	296.7	36	8.5	13	42.6	3	5	8
111	1,113,511	105	823,778	105	271.3	36	8.5	9	31.2	2	3	5
191	11,024,870	12	112,634	8	25.4	...	...	4	11.4	1	2	3

DRAINAGE OF AGRICULTURAL LANDS

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

Item and Census year		The State	Adair	Andrew	Atchison	Bates	Bollinger	Boone	Buchanan	Butler	Caldwell
AREA											
1	Approximate land area.....acres 1960...	44,248,320	367,360	278,400	351,360	538,240	395,520	437,120	258,560	456,960	275,200
2	Land in farms.....acres 1959...	33,155,226	323,702	297,607	318,812	480,928	253,254	349,579	213,482	258,621	258,010
3	Drainage projects.....number 1960...	425	5	12	23	2	1	1	3	5	2
4	1950.....	318	4	12	19	2	1	1	4	6	2
5	Total area in drainage projects ¹.....acres served 1960...	3,123,416	20,414	26,403	80,802	48,933	27,820	519	25,767	238,471	3,462
6	1950.....	3,147,484	12,065	32,143	71,355	48,933	35,219	519	15,992	238,471	3,462
7	Area not used for agriculture or not drained.....acres served 1960...	26,100	...	...	...	...	5,500	...	...	900	...
8	Net area drained and used for agriculture.....acres served 1960...	3,097,316	20,414	26,403	80,802	48,933	22,320	519	25,767	237,571	3,462
9	Drainage established before 1950.....acres served 1960...	3,059,174	20,414	25,203	74,855	48,933	22,320	519	25,767	237,571	3,462
10	Area added, 1950-1959.....acres served 1960...	38,142	...	1,200	5,947	...	...	...	...	...	...
11	Area served by two or more projects.....acres served 1960...	517,507	...	400	57,499	...	...	...	...	2,160	...
PROJECTS, 1960, BY TYPE OF ORGANIZATION											
12	Drains owned by one landowner.....number of projects...	55	...	1	...	...	...	...	...	...	...
13	acres served ² ...	42,154	...	600	...	...	...	...	...	...	...
14	Cooperative or mutual drains.....number of projects...	56	...	1	...	...	...	...	...	...	...
15	acres served ² ...	57,739	...	1,000	...	...	...	...	...	...	...
16	Legally organized public drains.....number of projects...	314	5	10	23	2	1	1	3	5	2
17	acres served ² ...	3,570,736	20,414	25,203	139,201	48,933	22,320	519	25,767	239,731	3,462
PROJECTS, 1960, BY YEAR STARTED											
18	1950-1959.....number of projects...	111	...	2	3	...	...	...	...	...	...
19	acres served ² ...	167,964	...	1,600	59,214	...	...	...	...	...	...
20	Prior to 1950.....number of projects...	314	5	10	20	2	1	1	3	5	2
21	acres served ² ...	3,502,665	20,414	25,203	79,987	48,933	22,320	519	25,767	239,731	3,462
DRAINAGE OPERATIONS, 1950-1959 ³											
22	Cost of drainage works and services.....projects reporting...	302	1	7	11	2	1	...	3	4	...
23	dollars...	12,138,381	12,000	42,168	506,170	6,580	124,239	...	97,451	681,937	...
24	New drainage works constructed, enlarged, or installed.....projects reporting...	117	...	3	4	...	...	...	...	...	...
25	dollars...	936,412	...	14,668	208,000	...	...	...	...	...	...
26	Open ditches.....projects reporting...	113	...	3	4	...	...	...	...	...	...
27	length, miles...	296.7	...	5.6	15.5	...	...	...	...	...	...
28	Tile or covered drains.....projects reporting...	36	...	...	...	...	...	...	...	...	...
29	length, miles...	8.5	...	...	...	...	...	...	...	...	...
30	Levees or dikes.....projects reporting...	13	...	1	...	...	...	...	...	...	...
31	length, miles...	42.6	...	5.0	...	...	...	...	...	...	...
32	Pumps.....projects reporting...	3	...	...	1	...	...	...	...	...	...
33	number of pumps...	5	...	...	1	...	...	...	...	...	...
34	Other (see text).....projects reporting...	8	...	...	1	...	...	...	...	...	...
35	Cost of maintenance, operation, repair, and administration.....projects reporting...	224	1	6	10	2	1	...	3	4	...
36	dollars...	11,201,969	12,000	27,500	298,170	6,580	124,239	...	97,451	681,937	...

¹Land served by two or more projects counted only once.²Acres served by two projects are included for each project. See text.³Includes projects taken over by another project prior to 1960. See text.

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

	Item and Census year	Callaway	Cape Girardeau	Carroll	Cass	Charlton	Clark	Clay	Devisee	De Kalb	Dunklin
AREA											
1	Approximate land area.....acres 1960...	534,400	368,640	444,160	446,720	485,760	325,760	264,320	360,320	270,720	347,520
2	Land in farms.....acres 1959...	416,390	306,651	411,900	398,600	418,576	290,241	207,232	328,020	247,738	309,990
3	Drainage projects.....number 1960...	5	12	8	1	14	11	2	8	2	40
4	1950...	5	3	6	1	15	9	1	3	2	26
5	Total area in drainage projects ¹.....acres served 1960...	6,040	45,060	81,649	15,385	60,536	38,120	5,891	38,528	3,100	261,254
6	1950...	6,040	47,350	78,972	15,385	62,266	35,600	5,183	38,478	3,000	265,957
7	Area not used for agriculture or not drained.....acres served 1960...	...	...	12,800	...	...	...	...	...	...	...
8	Net area drained and used for agriculture.....acres served 1960...	6,040	45,060	68,849	15,385	60,536	38,120	5,891	38,528	3,100	261,254
9	Drainage established before 1960.....acres served 1960...	6,040	43,495	66,172	15,385	60,536	35,600	5,183	38,478	3,000	259,234
10	Area added, 1950-1959.....acres served 1960...	...	1,565	2,677	...	...	2,520	708	50	100	2,020
11	Area served by two or more projects.....acres served 1960...	...	8,948	28,965	...	7,264	...	...	4,215	...	73,621
PROJECTS, 1960, BY TYPE OF ORGANIZATION											
12	Drains owned by one landowner.....number of projects...	...	...	...	...	...	1	...	...	...	2
13	acres served ²...	...	...	...	...	...	1,360	...	...	...	1,240
14	Cooperative or mutual drains.....number of projects...	...	9	...	...	...	1	...	5	2	12
15	acres served ²...	...	7,915	...	...	...	1,160	...	4,265	3,100	13,210
16	Legally organized public drains.....number of projects...	5	3	8	1	14	9	2	3	...	26
17	acres served ² ...	6,040	46,093	97,814	15,385	67,800	35,600	5,891	38,478	...	333,905
PROJECTS, 1960, BY YEAR STARTED											
18	1950-1959.....number of projects...	...	9	2	...	...	2	1	5	...	14
19	acres served ²...	...	7,915	2,677	...	...	2,520	708	4,265	...	14,450
20	Prior to 1950.....number of projects...	5	3	6	1	14	9	1	3	2	26
21	acres served ² ...	6,040	46,093	95,137	15,385	67,800	35,600	5,183	38,478	3,100	333,905
DRAINAGE OPERATIONS, 1950-1959 ³											
22	Cost of drainage works and services.....projects reporting...	3	11	8	1	10	4	2	6	(⁴)	40
23	dollars...	13,883	270,330	256,178	10,310	546,864	218,677	99,933	27,047	(⁴)	1,087,684
24	New drainage works constructed, enlarged, or installed.....projects reporting...	...	9	2	...	1	3	1	3	(⁴)	13
25	dollars...	...	53,946	69,376	...	8,500	27,147	8,496	13,000	(⁴)	63,900
26	Open ditches.....projects reporting...	...	9	2	...	1	2	1	3	(⁴)	13
27	length, miles...	...	19.8	9.7	...	0.5	2.5	1.6	5.2	(⁴)	42.6
28	Tile or covered drains.....projects reporting...	...	3	...	...	...	...	...	...	...	10
29	length, miles...	...	0.3	...	...	...	...	...	...	...	1.0
30	Levees or dikes.....projects reporting...	...	...	2	...	1	1	...	...	...	...
31	length, miles...	...	...	6.8	...	0.5	2.0	...	...	...	...
32	Pumps.....projects reporting...	...	...	...	...	...	2	...	...	...	...
33	number of pumps...	...	...	...	...	...	4	...	...	...	...
34	Other (see text).....projects reporting...	...	...	2	...	1	...	...	...	...	...
35	Cost of maintenance, operation, repair, and administration.....projects reporting...	3	4	8	1	10	4	1	6	...	27
36	dollars...	13,883	216,384	186,802	10,310	538,364	191,530	91,437	14,047	...	1,023,784

¹Land served by two or more projects counted only once.²Acres served by two projects are included for each project. See text.³Includes projects taken over by another project prior to 1960. See text.⁴Included in State total only.

DRAINAGE OF AGRICULTURAL LANDS

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data.]

Item and Census year		Franklin	Gentry	Grundy	Harrison	Henry	Holt	Howard	Jackson	Johnson	Knox
AREA											
1	Approximate land area.....acres 1960...	596,480	312,320	278,400	460,800	471,680	296,960	300,160	385,920	528,640	327,680
2	Land in farms.....acres 1959...	401,964	292,671	251,343	427,462	401,370	254,160	262,472	230,898	456,253	300,616
3	Drainage projects.....number 1960...	2	5	12	6	2	10	2	4	3	5
4	1950...	1	4	12	3	2	9	3	4	3	5
5	Total area in drainage projects ¹.....acres served 1960...	5,380	27,759	57,627	23,318	11,513	43,161	4,012	9,090	28,262	7,365
6	1950...	4,380	27,759	57,627	22,718	11,513	42,229	5,579	9,551	28,262	7,365
7	Area not used for agriculture or not drained.....acres served 1960...	...	...	...	...	...	...	...	...	...	...
8	Net area drained and used for agriculture.....acres served 1960...	5,380	27,759	57,627	23,318	11,513	43,161	4,012	9,090	28,262	7,365
9	Drainage established before 1950.....acres served 1960...	4,380	27,759	57,627	22,718	11,513	43,161	4,012	9,090	28,262	7,365
10	Area added, 1950-1959.....acres served 1960...	1,000	...	...	600	...	...	...	...	...	...
11	Area served by two or more projects.....acres served 1960...	...	...	...	...	...	...	...	...	1,250	...
PROJECTS, 1960, BY TYPE OF ORGANIZATION											
12	Drains owned by one landowner.....number of projects...	1	1	...	1	...	...	...	...	...	...
13	acres served ² ...	1,000	670	...	640	...	...	...	...	...	...
14	Cooperative or mutual drains.....number of projects...	...	...	...	2	...	...	...	1	...	...
15	acres served ²...	...	...	...	1,240	...	...	...	1,500	...	...
16	Legally organized public drains.....number of projects...	1	4	12	3	2	10	2	3	3	5
17	acres served ² ...	4,380	27,089	57,627	21,438	11,513	43,161	4,012	7,590	29,512	7,365
PROJECTS, 1960, BY YEAR STARTED											
18	1950-1959.....number of projects...	1	...	...	3	...	1	...	...	...	...
19	acres served ² ...	1,000	...	...	1,880	...	7,086	...	...	...	...
20	Prior to 1950.....number of projects...	1	5	12	3	2	9	2	4	3	5
21	acres served ² ...	4,380	27,759	57,627	21,438	11,513	36,075	4,012	9,090	29,512	7,365
DRAINAGE OPERATIONS, 1950-1959 ³											
22	Cost of drainage works and services.....projects reporting...	2	(⁴)	...	3	...	5	2	3	2	3
23	dollars...	75,969	(⁴)	...	20,500	...	298,430	16,394	103,122	6,723	4,100
24	New drainage works constructed, enlarged, or installed.....projects reporting...	1	(⁴)	...	3	...	1	...	...	...	...
25	dollars...	7,469	(⁴)	...	20,500	...	1,000	...	...	...	...
26	Open ditches.....projects reporting...	1	(⁴)	...	3	...	1	...	...	...	...
27	length, miles...	2.3	(⁴)	...	8.2	...	1.0	...	...	...	...
28	Tile or covered drains.....projects reporting...	...	...	...	...	...	...	...	...	...	...
29	length, miles...	...	...	...	...	...	...	...	...	...	...
30	Levees or dikes.....projects reporting...	...	(⁴)	...	...	...	...	...	...	...	...
31	length, miles...	...	(⁴)	...	...	...	...	...	...	...	...
32	Pumps.....projects reporting...	...	...	...	...	...	...	...	...	...	...
33	number of pumps...	...	...	...	...	...	...	...	...	...	...
34	Other (see text).....projects reporting...	1	...	...	...	...	...	...	...	...	...
35	Cost of maintenance, operation, repair, and administration.....projects reporting...	1	...	...	...	...	5	2	3	2	3
36	dollars...	68,500	...	...	...	...	297,430	16,394	103,122	6,723	4,100

¹Land served by two or more projects counted only once.²Acres served by two projects are included for each project. See text.³Includes projects taken over by another project prior to 1960. See text.⁴Included in State total only.

County Table 1. —DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data.]

	Item and Census year	Lafayette	Lewis	Lincoln	Linn	Livingston	Macon	Marion	Mercer	Mississippi	New Madrid
AREA											
1	Approximate land area.....acres 1960...	405,760	323,200	402,560	399,360	341,120	520,960	281,600	291,840	263,040	434,560
2	Land in farms.....acres 1959...	372,740	288,850	308,600	358,003	305,742	442,904	252,620	262,481	227,676	365,779
3	Drainage projects.....number 1960...	6	7	8	2	5	3	8	7	13	23
4	1950...	5	7	7	3	5	3	3	6	11	27
6	Total area in drainage projects ¹.....acres served 1960...	12,662	20,836	27,244	17,718	88,095	27,737	24,223	18,118	228,793	368,596
6	1950...	10,219	20,836	27,244	17,735	88,175	27,737	23,173	18,118	238,820	388,315
7	Area not used for agriculture or not drained.....acres served 1960...	...	...	...	...	...	...	...	...	1,900	...
8	Net area drained and used for agriculture.....acres served 1960...	12,662	20,836	27,244	17,718	88,095	27,737	24,223	18,118	226,893	368,596
9	Drainage established before 1950.....acres served 1960...	10,073	20,836	27,244	17,718	88,095	27,737	23,173	18,118	226,893	368,596
10	Area added, 1950-1959.....acres served 1960...	2,589	...	...	...	...	...	1,050	...	...	...
11	Area served by two or more projects.....acres served 1960...	...	...	764	...	...	...	4,060	900	103,249	130,258
PROJECTS, 1960, BY TYPE OF ORGANIZATION											
12	Drains owned by one landowner.....number of projects...	...	...	1	...	...	...	5	1	...	...
13	acres served ²...	...	...	764	...	...	...	5,110	500	...	...
14	Cooperative or mutual drains.....number of projects...	...	...	...	...	...	...	...	...	...	3
15	acres served ²...	...	...	...	...	...	...	...	...	...	5,047
16	Legally organized public drains.....number of projects...	6	7	7	2	5	3	3	6	13	20
17	acres served ² ...	12,662	20,836	27,244	17,718	88,095	27,737	23,173	18,518	349,652	511,103
PROJECTS, 1960, BY YEAR STARTED											
18	1950-1959.....number of projects...	1	...	1	...	...	...	5	1	...	3
19	acres served ² ...	2,589	...	764	...	...	...	5,110	500	...	5,047
20	Prior to 1950.....number of projects...	5	7	7	2	5	3	3	6	13	20
21	acres served ² ...	10,073	20,836	27,244	17,718	88,095	27,737	23,173	18,518	349,652	511,103
DRAINAGE OPERATIONS, 1950-1959 ³											
22	Cost of drainage works and services.....projects reporting...	5	4	8	...	...	...	8	3	13	20
23	dollars...	43,323	73,100	179,960	...	...	...	273,020	4,200	299,289	1,918,807
24	New drainage works constructed, enlarged, or installed.....projects reporting...	2	1	1	...	...	...	4	(4)	1	3
25	dollars...	35,579	1,873	14,478	...	...	...	31,500	(4)	3,600	16,520
26	Open ditches.....projects reporting...	1	...	1	...	...	...	4	(4)	1	3
27	length, miles...	3.4	...	11.8	...	...	...	23.5	(4)	0.7	13.0
28	Tile or covered drains.....projects reporting...	...	1	...	...	...	...	2	...	...	2
29	length, miles...	...	0.1	...	...	...	...	5.1	...	...	0.2
30	Levees or dikes.....projects reporting...	2	...	...	...	...	...	...	(4)	...	...
31	length, miles...	10.4	...	...	...	...	...	...	(4)	...	...
32	Pumps.....projects reporting...	...	...	...	...	...	...	...	...	...	...
33	number of pumps...	...	...	...	...	...	...	...	...	...	...
34	Other (see text).....projects reporting...	...	1	...	...	...	...	...	...	...	...
35	Cost of maintenance, operation, repair, and administration.....projects reporting...	5	4	7	...	...	...	6	2	13	17
36	dollars...	7,744	71,227	165,482	...	...	...	241,520	200	295,689	1,902,287

¹Land served by two or more projects counted only once.²Acres served by two projects are included for each project. See text.³Includes projects taken over by another project prior to 1960. See text.⁴Included in State total only.

DRAINAGE OF AGRICULTURAL LANDS

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

Item and Census year		Nodaway	Osage	Pemiscot	Perry	Pettie	Pike	Platte	Putnam	Ray	Ripley
AREA											
1	Approximate land area.....acres 1960...	561,280	384,640	312,320	304,640	434,560	435,840	268,800	331,520	367,360	408,960
2	Land in farms.....acres 1950...	544,796	331,842	289,786	255,426	403,797	371,254	219,789	297,327	314,601	162,578
3	Drainage projects.....number 1960...	16	2	47	1	...	4	2	3	10	3
4	1950...	15	2	14	1	1	4	2	3	7	3
5	Total area in drainage projects ¹.....acres served 1960...	51,682	1,701	275,790	18,480	...	16,912	7,329	1,700	32,183	22,359
6	1950...	50,763	1,701	274,090	18,480	2,000	16,912	7,638	1,700	24,598	22,359
7	Area not used for agriculture or not drained.....acres served 1960...	...	...	...	...	...	...	...	...	...	...
8	Not area drained and used for agriculture.....acres served 1960...	51,682	1,701	275,790	18,480	...	16,912	7,329	1,700	32,183	22,359
9	Drainage established before 1950.....acres served 1960...	50,682	1,701	274,090	18,480	...	16,912	7,329	1,700	25,814	22,359
10	Area added, 1950-1959.....acres served 1960...	1,000	...	1,700	...	...	...	...	...	6,369	...
11	Area served by two or more projects.....acres served 1960...	...	...	43,322	...	...	...	...	...	...	...
PROJECTS, 1960, BY TYPE OF ORGANIZATION											
12	Drains owned by one landowner.....number of projects...	...	...	25	...	...	1	...	...	...	...
13	acres served ²...	...	...	15,380	...	...	1,050	...	...	...	...
14	Cooperative or mutual drains.....number of projects...	1	...	8	...	...	1	...	...	...	...
15	acres served ² ...	1,000	...	4,850	...	...	2,290	...	...	...	...
16	Legally organized public drains.....number of projects...	15	2	14	1	...	2	2	3	10	3
17	acres served ² ...	50,682	1,701	301,802	18,480	...	13,972	7,329	1,700	32,183	22,359
PROJECTS, 1960, BY YEAR STARTED											
18	1950-1959.....number of projects...	1	...	32	...	...	...	...	...	2	...
19	acres served ² ...	1,000	...	19,730	...	...	...	...	...	6,369	...
20	Prior to 1950.....number of projects...	15	2	15	1	...	4	2	3	8	3
21	acres served ² ...	50,682	1,701	302,302	18,480	...	16,912	7,329	1,700	25,814	22,359
DRAINAGE OPERATIONS, 1950-1959 ³											
22	Cost of drainage works and services.....projects reporting...	3	1	45	1	...	4	2	1	8	...
23	dollars...	11,250	7,081	2,177,652	18,416	...	91,600	44,300	3,900	229,986	...
24	New drainage works constructed, enlarged, or installed.....projects reporting...	(⁴)	...	32	...	...	...	...	...	2	...
25	dollars...	(⁴)	...	55,212	...	...	...	...	...	115,230	...
26	Open ditches.....projects reporting...	(⁴)	...	32	...	...	...	...	...	2	...
27	length, miles...	(⁴)	...	45.8	...	...	...	...	...	7.4	...
28	Tile or covered drains.....projects reporting...	(⁴)	...	15	...	...	...	...	...	...	...
29	length, miles...	(⁴)	...	1.5	...	...	...	...	...	...	...
30	Levees or dikes.....projects reporting...	(⁴)	...	...	...	...	...	...	...	2	...
31	length, miles...	(⁴)	...	...	...	...	...	...	...	4.9	...
32	Pumps.....projects reporting...	...	...	...	...	...	...	...	...	...	...
33	number of pumps...	...	...	...	...	...	...	...	...	...	...
34	Other (see text).....projects reporting...	...	...	...	...	...	...	...	...	1	...
35	Cost of maintenance, operation, repair, and administration.....projects reporting...	3	1	23	1	...	4	2	1	7	...
36	dollars...	3,750	7,081	2,122,440	18,416	...	91,600	44,300	3,900	114,756	...

¹Land served by two or more projects counted only once.²Acres served by two projects are included for each project. See text.³Includes projects taken over by another project prior to 1960. See text.⁴Included in State total only.

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data.]

	Item and Census year	St. Charles	St. Louis	Seline	Schuyler	Scotland	Scott	Shelby	Stoddard	Sullivan	Worth
AREA											
1	Approximate land area.....acres 1960...	359,040	318,080	485,760	195,840	282,240	267,520	321,280	535,680	418,560	170,880
2	Land in farms.....acres 1960...	271,667	118,096	442,953	173,234	255,948	247,760	297,780	417,967	391,558	159,234
3	Drainage projects.....number 1960...	11	2	7	4	8	12	5	44	2	4
4	1950...	7	3	11	4	9	12	3	29	2	2
5	Total area in drainage projects ¹.....acres served 1960...	26,888	2,967	29,250	9,125	21,330	151,025	11,382	339,066	11,282	13,302
6	1950...	25,588	11,933	45,073	9,125	21,330	151,368	9,632	335,641	11,282	12,526
7	Area not used for agriculture or not drained.....acres served 1960...	...	...	...	...	...	...	...	5,000	...	...
8	Net area drained and used for agriculture.....acres served 1960...	26,888	2,967	29,250	9,125	21,330	151,025	11,382	334,066	11,282	13,302
9	Drainage established before 1950.....acres served 1960...	25,588	1,967	29,250	9,125	21,330	150,768	9,632	331,326	11,282	13,302
10	Area added, 1950-1959.....acres served 1960...	1,300	1,000	...	...	...	257	1,750	2,740	...	...
11	Area served by two or more projects.....acres served 1960...	1,300	...	520	...	...	14,158	2,350	31,754	...	550
PROJECTS, 1960, BY TYPE OF ORGANIZATION											
12	Drains owned by one landowner.....number of projects...	1	...	...	...	...	...	1	13	...	...
13	acres served ² ...	500	...	...	...	...	...	600	12,740	...	...
14	Cooperative or mutual drains.....number of projects...	3	1	...	...	...	...	1	4	...	1
15	acres served ² ...	2,100	1,000	...	...	...	...	1,750	5,762	...	550
16	Legally organized public drains.....number of projects...	7	1	7	4	8	12	3	27	2	3
17	acres served ² ...	25,588	1,967	29,770	9,125	21,330	165,183	11,382	349,018	11,282	13,302
PROJECTS, 1960, BY YEAR STARTED											
18	1950-1959.....number of projects...	4	1	...	...	...	...	2	16	...	1
19	acres served ² ...	2,600	1,000	...	...	...	...	2,350	17,040	...	550
20	Prior to 1950.....number of projects...	7	1	7	4	8	12	3	28	2	3
21	acres served ² ...	25,588	1,967	29,770	9,125	21,330	165,183	11,382	350,480	11,282	13,302
DRAINAGE OPERATIONS, 1950-1959 ³											
22	Cost of drainage works and service.....projects reporting...	8	1	6	1	...	12	5	35	...	1
23	dollars...	52,711	12,125	128,600	9,000	...	505,378	33,400	1,474,494	...	4,500
24	New drainage works constructed, enlarged, or installed.....projects reporting...	4	1	1	...	...	1	3	15	...	1
25	dollars...	16,055	12,125	15,635	...	...	2,179	30,300	60,624	...	2,000
26	Open ditches.....projects reporting...	4	1	...	...	...	1	3	15	...	1
27	length, miles...	5.9	3.6	...	...	...	0.5	5.5	50.0	...	2.0
28	Tile or covered drains.....projects reporting...	1	1	...	...	...	...	...	...	...	...
29	length, miles...	0.1	0.1	...	...	...	...	...	...	...	...
30	Levees or dikes.....projects reporting...	...	1	1	...	...	...	...	...	...	...
31	length, miles...	...	3.6	2.2	...	...	...	...	...	...	...
32	Pumps.....projects reporting...	...	...	...	...	...	...	...	...	...	...
33	number of pumps...	...	...	...	...	...	...	...	...	...	...
34	Other (see text).....projects reporting...	...	1	1	...	...	...	...	...	...	...
35	Cost of maintenance, operation, repair, and administration.....projects reporting...	4	...	6	1	...	12	3	22	...	1
36	dollars...	36,656	...	112,965	9,000	...	503,199	3,100	1,413,870	...	2,500

¹Land served by two or more projects counted only once.²Acres served by two projects are included for each project. See text.³Includes projects taken over by another project prior to 1960. See text.

State Table 1.—DRAINAGE PROJECTS—NUMBER, AREA, COST, AND WORKS, 1920 TO 1960

[See text for comparability of data]

Item	1960 Census	1950 Census	1940 Census	1930 Census	1920 Census
AREA					
Approximate land area.....acres...	93,271,040	93,361,920	93,642,240	93,523,840	93,523,840
Land in farms.....acres...	64,081,391	59,247,434	46,451,594	44,659,152	35,070,656
Drainage projects.....number...	20	404	34	NA	NA
Total area in drainage projects.....acres served...	62,222	289,189	372,661	167,629	166,682
Area not used for agriculture or not drained.....acres served...	2,110	NA	NA	NA	NA
Not area drained and used for agriculture.....acres served...	60,112	NA	1362,711	1150,844	NA
Drainage established 10 years or more before Census date.....acres served...	49,656	NA	NA	NA	NA
Drainage established within 10 years of Census date.....acres served...	10,456	NA	NA	NA	NA
Area served by two or more projects.....acres served...	...	3,336	1,528	...	...
PROJECTS BY TYPE OF ORGANIZATION					
Drains owned by one landowner.....number of projects...	1	2 ²	NA	NA	NA
.....acres served...	640	23,260	27,000	28,100	213,650
Cooperative or mutual drains.....number of projects...	6	23	...	...	...
.....acres served...	4,685	22,260	...	...	...
Legally organized public drains.....number of projects...	13	222	NA	NA	NA
.....acres served...	54,787	294,172	253,418	239,984	2129,432
PROJECTS BY YEAR STARTED					
Started 10 years or more before Census date.....number of projects...	11	221	NA	NA	NA
.....acres served...	51,265	284,354	355,489	34,408	221,533
Started within 10 years of Census date.....number of projects...	9	26	NA	NA	NA
.....acres served...	8,847	215,338	17,172	133,221	3134,499
OPERATIONS, 10-YEAR PERIOD PRECEDING CENSUS DATE					
Cost of drainage works and services.....projects reporting...	18	225	NA	NA	NA
.....dollars...	721,491	462,260	NA	NA	NA
New drainage works constructed, enlarged, or installed.....projects reporting...	11	49	NA	NA	NA
.....cost, dollars...	211,129	4167,830	NA	NA	NA
Open ditches.....projects reporting...	10	8	NA	NA	NA
.....length, miles...	43.0	40	NA	NA	NA
Tile or covered drains.....projects reporting...	1	2	NA	NA	NA
.....length, miles...	2.2	2	NA	NA	NA
Levees or dikes.....projects reporting...	...	...	NA	NA	NA
.....length, miles...	...	...	NA	NA	NA
Pumps.....projects reporting...	...	NA	NA	NA	NA
.....number of pumps...	...	NA	NA	NA	NA
Other (see text).....projects reporting...	1	NA	NA	NA	NA
Cost of maintenance, operation, repair, and administration.....projects reporting...	10	NA	NA	NA	NA
.....dollars...	510,362	294,430	NA	NA	NA
STATUS ON CENSUS DATE					
Capital investment.....dollars...	NA	NA	2,827,839	1,879,296	664,990
Physical works:					
Open ditches.....length, miles...	NA	NA	420.9	284.2	102.1
Tile drains.....length, miles...	NA	NA	73.8	76.7	50.7
Levees and dikes.....length, miles...	NA	NA	0.8	...	...
Pumping units.....number of units...	NA	(²)	...	...	...

NA not available.

¹Not fully comparable. See text.²1950 figures exclude 377 projects and 189,497 acres in "irrigation enterprises"; 1940 figures exclude 312,243 acres in "irrigation enterprises"; 1930 figures exclude 119,545 acres in "irrigation enterprises"; 1920 figures exclude 25,600 acres in "irrigation enterprises."³1920 figures exclude 12,650 acres for which date of organization was not reported.⁴Cost of new works for lands not previously drained.

State Table 2.—DRAINAGE

	Size of project (Based on area of agricultural land in project)	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
			Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
					Projects reporting	Acres	Projects reporting	Acres
1	All projects.....	20	60,112	...	11	49,656	10	10,456
2	500 to 999 acres.....	11	9,051	...	4	3,854	7	5,197
3	1,000 to 1,999 acres.....	4	4,921	...	3	3,921	1	1,000
4	2,000 to 4,999 acres.....	3	10,670	...	2	8,020	1	2,650
5	5,000 to 9,999 acres.....	...	...	...	...	...	...	...
6	10,000 to 19,999 acres.....	1	12,580	...	1	10,971	1	1,609
7	20,000 to 49,999 acres.....	1	22,890	...	1	22,890	...	...
8	50,000 to 99,999 acres.....	...	...	...	...	...	...	...
9	100,000 or more acres.....	...	...	...	...	...	...	...

State Table 3.—DRAINAGE PROJECTS, 1960,

	Type of organization	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
			Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
					Projects reporting	Acres	Projects reporting	Acres
1	All projects.....	20	60,112	...	11	49,656	10	10,456
2	Drains owned by one landowner.....	1	640	...	...	...	1	640
3	Cooperative or mutual drains.....	6	4,685	...	2	1,760	4	2,925
4	Legally organized public drains.....	13	54,787	...	9	47,896	5	6,891

State Table 4.—DRAINAGE PROJECTS, 1960,

	Year of organization	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
			Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
					Projects reporting	Acres	Projects reporting	Acres
1	All projects.....	20	60,112	...	11	49,656	10	10,456
2	1960-1959.....	9	8,847	...	...	...	9	8,847
3	Prior to 1950.....	11	51,265	...	11	49,656	1	1,609

PROJECTS, 1960, BY SIZE

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959								
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	Projects reporting
18	721,491	11	211,129	10	43.0	1	2.2	...	...	...	...	1
10	212,412	7	131,326	6	17.3	1	2.2	...	...	...	...	1
3	35,885	1	25,000	1	3.9	...	...	...	...	...	...	3
3	64,107	1	32,303	1	11.9	...	...	...	...	...	...	4
...	...	...	...	...	...	...	...	...	...	...	...	5
1	34,087	1	12,500	1	4.9	...	...	...	...	...	...	6
1	375,000	1	10,000	1	5.0	...	...	...	...	...	...	7
...	...	...	...	...	...	...	...	...	...	...	...	8
...	...	...	...	...	...	...	...	...	...	...	...	9

BY TYPE OF ORGANIZATION

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959								
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	Projects reporting
18	721,491	11	211,129	10	43.0	1	2.2	...	...	...	...	1
1	6,000	1	6,000	1	1.9	...	...	...	...	...	...	2
4	67,373	3	42,873	3	9.4	...	...	...	...	...	...	3
13	648,118	7	162,256	6	31.7	1	2.2	...	...	...	...	4

BY YEAR OF ORGANIZATION

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959								
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	Projects reporting
18	721,491	11	211,129	10	43.0	1	2.2	...	...	...	...	1
9	161,587	8	137,087	8	33.1	...	...	...	...	...	...	2
9	559,904	3	74,042	2	9.9	1	2.2	...	...	...	...	3

DRAINAGE OF AGRICULTURAL LANDS

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data.]

	Item and Census year	The State	Broadwater	Ouster	Flathead	Gallatin	Missoula	Powell
	AREA							
1	Approximate land area.....acres 1960...	93,271,040	766,720	12,409,600	3,289,600	1,610,880	1,672,320	1,495,680
2	Land in farms.....acres 1959...	64,081,391	463,977	12,414,699	507,227	990,321	373,333	804,356
3	Drainage projects.....number 1960...	20	1	1	1	1	1	1
4	1950...	404	5	5	8	11	6	29
5	Total area in drainage projects ¹.....acres served 1960...	62,222	1,060	1,440	600	700	900	640
6	1950...	289,189	1,546	5,765	3,599	10,235	322	1,335
7	Area not used for agriculture or not drained.....acres served 1960...	2,110	...	760	...	...	...	...
8	Net area drained and used for agriculture.....acres served 1960...	60,112	1,060	680	600	700	900	640
9	Drainage established before 1950.....acres served 1960...	49,656	1,060	...	...	700	...	...
10	Area added, 1950-1959.....acres served 1960...	10,456	...	680	600	...	900	640
11	Area served by two or more projects.....acres served 1960...	...	...	...	...	...	...	...
	PROJECTS, 1960, BY TYPE OF ORGANIZATION							
12	Drains owned by one landowner.....number of projects...	1	...	...	...	...	...	1
13	acres served ² ...	640	...	...	...	...	...	640
14	Cooperative or mutual drains.....number of projects...	6	1	1	1	1	1	...
15	acres served ³ ...	4,685	1,060	680	600	700	900	...
16	Legally organized public drains.....number of projects...	13	...	...	...	...	...	...
17	acres served ³ ...	54,787	...	...	...	...	...	...
	PROJECTS, 1960, BY YEAR STARTED							
18	1950-1959.....number of projects...	9	...	1	1	...	1	1
19	acres served ³ ...	8,847	...	680	600	...	900	640
20	Prior to 1950.....number of projects...	11	1	...	...	1	...	...
21	acres served ³ ...	51,265	1,060	...	...	700	...	...
	DRAINAGE OPERATIONS, 1950-1959 ⁴							
22	Cost of drainage works and services.....projects reporting...	18	...	1	1	...	1	1
23	dollars...	721,491	...	35,000	24,500	...	4,044	6,000
24	New drainage works constructed, enlarged, or installed.....projects reporting...	11	...	1	...	...	1	1
25	dollars...	211,129	...	35,000	...	...	4,044	6,000
26	Open ditches.....projects reporting...	10	...	1	...	...	1	1
27	length, miles...	43.0	...	6.1	...	...	2.1	1.9
28	Tile or covered drains.....projects reporting...	1	...	...	...	...	...	...
29	length, miles...	2.2	...	...	...	...	...	...
30	Levees or dikes.....projects reporting...	...	...	...	...	...	...	...
31	length, miles...	...	...	...	...	...	...	...
32	Pumps.....projects reporting...	...	...	...	...	...	...	...
33	number of pumps...	...	...	...	...	...	...	...
34	Other (see text).....projects reporting...	1	...	...	...	...	...	...
35	Cost of maintenance, operation, repair, and administration.....projects reporting...	10	...	...	1	...	...	...
36	dollars...	510,362	...	...	24,500	...	...	...

¹The excess of farm acreage over approximate land area is due to the fact that the entire acreage of a farm is tabulated as in the county in which the headquarters is located, even though a part of the farm may be situated in an adjoining county.

²Land served by two or more projects counted only once.

³Acres served by two projects are included for each project. See text.

⁴Includes projects taken over by another project prior to 1960. See text.

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data.]

Item and Census year	Ravalli	Richland	Roosevelt	Sweet Grass	Treasure	Valley	Yellowstone	All other counties ¹
AREA								
1 Approximate land area.....acres 1960...	1,525,760	1,321,600	1,526,400	1,181,440	629,760	3,175,040	² 1,686,400	47,386,880
2 Land in farms.....acres 1954...	378,523	1,220,742	1,297,937	873,413	567,962	2,293,143	² 1,778,452	31,631,018
3 Drainage projects.....number 1960...	1	1	1	1	3	2	6	...
4 1950...	67	3	6	3	4	10	39	216
5 Total area in drainage projects ³.....acres served 1960...	4,880	700	3,145	745	4,582	33,075	9,755	...
6 1950...	15,430	5,429	2,078	145	2,871	28,230	73,383	138,821
7 Area not used for agriculture or not drained.....acres served 1960...	...	...	...	...	...	750	600	...
8 Net area drained and used for agriculture.....acres served 1960...	4,880	700	3,145	745	4,582	32,325	9,155	...
9 Drainage established before 1950.....acres served 1960...	4,880	...	2,743	...	...	31,118	9,155	...
10 Area added, 1950-1959.....acres served 1960...	...	700	402	745	4,582	1,207	...	...
11 Area served by two or more projects.....acres served 1960...	...	...	...	...	...	...	...	...
PROJECTS, 1960, BY TYPE OF ORGANIZATION								
12 Drains owned by one landowner.....number of projects...	...	...	...	...	...	...	...	...
13 acres served ⁴...	...	...	...	...	...	...	...	...
14 Cooperative or mutual drains.....number of projects...	...	...	...	1	...	...	...	...
15 acres served ⁴...	...	...	...	745	...	...	...	...
16 Legally organized public drains.....number of projects...	1	1	1	...	3	2	6	...
17 acres served ⁴ ...	4,880	700	3,145	...	4,582	32,325	9,155	...
PROJECTS, 1960, BY YEAR STARTED								
18 1950-1959.....number of projects...	...	1	...	1	3	...	...	...
19 acres served ⁴...	...	700	...	745	4,582	...	...	...
20 Prior to 1950.....number of projects...	1	...	1	...	...	2	6	...
21 acres served ⁴ ...	4,880	...	3,145	...	...	32,325	9,155	...
DRAINAGE OPERATIONS, 1950-1959 ⁵								
22 Cost of drainage works and services.....projects reporting...	1	1	1	1	3	2	6	...
23 dollars...	13,549	19,911	8,522	3,829	68,303	400,565	137,268	...
24 New drainage works constructed, enlarged, or installed.....projects reporting...	...	1	1	1	3	2	1	...
25 dollars...	...	19,911	3,125	3,829	68,303	19,375	51,542	...
26 Open ditches.....projects reporting...	...	1	1	1	3	2	...	...
27 length, miles...	...	2.2	1.2	1.2	19.6	8.7	...	...
28 Tile or covered drains.....projects reporting...	...	...	...	...	...	...	1	...
29 length, miles...	...	...	...	...	...	...	2.2	...
30 Levees or dikes.....projects reporting...	...	...	...	...	...	...	...	...
31 length, miles...	...	...	...	...	...	...	...	...
32 Pumps.....projects reporting...	...	...	...	...	...	...	...	...
33 number of pumps...	...	...	...	...	...	...	...	...
34 Other (see text).....projects reporting...	...	...	...	1	...	...	...	...
35 Cost of maintenance, operation, repair, and administration.....projects reporting...	1	...	1	...	...	2	6	...
36 dollars...	13,549	...	5,397	...	...	381,190	85,726	...

¹Includes Beaverhead, Big Horn, Blaine, Carbon, Cascade, Dawson, Garfield, Golden Valley, Granite, Hill, Jefferson, Lake, Lewis and Clark, Lincoln, Madison, Meagher, Musselshell, Park, Petroleum, Phillips, Rosebud, Sanders, Silver Bow, Stillwater, Teton, and Yellowstone counties.

²The excess of farm acreage over approximate land area is due to the fact that the entire acreage of a farm is tabulated as in the county in which the headquarters is located, even though a part of the farm may be situated in an adjoining county.

³Land served by two or more projects counted only once.

⁴Acres served by two projects are included for each project. See text.

⁵Includes projects taken over by another project prior to 1960. See text.

State Table 1.—DRAINAGE PROJECTS—NUMBER, AREA, COST, AND WORKS, 1920 TO 1960

[See text for comparability of data.]

Item	1960 Census	1950 Census	1940 Census	1930 Census	1920 Census
AREA					
Approximate land area.....acres...	49,031,680	49,064,320	49,057,920	49,157,120	49,157,120
Land in farms.....acres...	47,755,708	47,466,828	47,343,981	44,708,565	42,225,475
Drainage projects.....number...	103	473	125	NA	NA
Total area in drainage projects.....acres served...	744,207	821,088	916,181	879,459	607,730
Area not used for agriculture or not drained.....acres served...	4,987	NA	NA	NA	NA
Net area drained and used for agriculture.....acres served...	739,220	NA	¹ 849,948	¹ 864,199	NA
Drainage established 10 years or more before Census date.....acres served...	697,914	NA	NA	NA	NA
Drainage established within 10 years of Census date.....acres served...	41,306	NA	NA	NA	NA
Area served by two or more projects.....acres served...	1,784	157,413	89,360	14,440	100,720
PROJECTS BY TYPE OF ORGANIZATION					
Drains owned by one landowner.....number of projects...	...	(²)	NA	NA	NA
.....acres served...	...	(²)	(²)	² 3,080	² 7,270
Cooperative or mutual drains.....number of projects...	4	² 5	...	...	...
.....acres served...	6,940	² 3,970	...	...	...
Legally organized public drains.....number of projects...	99	² 149	NA	NA	NA
.....acres served...	734,064	² 713,821	² 721,986	² 696,994	² 591,772
PROJECTS BY YEAR STARTED					
Started 10 years or more before Census date.....number of projects...	99	² 129	NA	NA	NA
.....acres served...	707,704	² 657,729	884,937	753,071	423,023
Started within 10 years of Census date.....number of projects...	4	² 25	NA	NA	NA
.....acres served...	33,300	² 60,062	31,244	126,388	184,707
OPERATIONS, 10-YEAR PERIOD PRECEDING CENSUS DATE					
Cost of drainage works and services.....projects reporting...	40	² 75	NA	NA	NA
.....dollars...	1,388,581	1,533,019	NA	NA	NA
New drainage works constructed, enlarged, or installed.....projects reporting...	12	² 27	NA	NA	NA
.....cost, dollars...	417,911	² 757,990	NA	NA	NA
Open ditches.....projects reporting...	10	28	NA	NA	NA
.....length, miles...	60.6	167	NA	NA	NA
Tile or covered drains.....projects reporting...	...	1	NA	NA	NA
.....length, miles...	...	1	NA	NA	NA
Levees or dikes.....projects reporting...	...	1	NA	NA	NA
.....length, miles...	...	1	NA	NA	NA
Pumps.....projects reporting...	...	NA	NA	NA	NA
.....number of pumps...	...	NA	NA	NA	NA
Other (see text).....projects reporting...	4	NA	NA	NA	NA
Cost of maintenance, operation, repair, and administration.....projects reporting...	36	NA	NA	NA	NA
.....dollars...	970,670	775,029	NA	NA	NA
STATUS ON CENSUS DATE					
Capital investment.....dollars...	NA	NA	7,578,999	6,847,070	4,388,578
Physical works:					
Open ditches.....length, miles...	NA	NA	1,406.7	1,202.3	734.5
Tile drains.....length, miles...	NA	NA	26.3	93.4	359.4
Levees and dikes.....length, miles...	NA	NA	230.3	116.8	26.8
Pumping units.....number of units...	NA	(²)	3	3	...

NA Not available.

¹Not fully comparable. See text.²1950 figures exclude 319 projects and 103,297 acres in "irrigation enterprises"; 1940 figures exclude 194,195 acres in "irrigation enterprises"; 1930 figures exclude 179,385 acres in "irrigation enterprises"; 1920 figures exclude 8,688 acres in "irrigation enterprises."³Cost of new works for lands not previously drained.

State Table 2.—DRAINAGE

Size of project (Based on area of agricultural land in project)	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
		Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
				Projects reporting	Acres	Projects reporting	Acres
1 All projects.....	103	741,004	3,568	102	699,698	9	41,306
2 500 to 999 acres.....	14	9,684	...	14	9,684	...	...
3 1,000 to 1,999 acres.....	18	27,781	1,464	18	27,781	...	...
4 2,000 to 4,999 acres.....	28	89,673	640	28	89,313	1	360
5 5,000 to 9,999 acres.....	26	187,135	...	25	159,565	6	27,570
6 10,000 to 19,999 acres.....	12	163,857	1,464	12	154,281	1	9,576
7 20,000 to 49,999 acres.....	3	95,508	...	3	95,508	...	...
8 50,000 to 99,999 acres.....	2	167,366	...	2	163,566	1	3,800
9 100,000 or more acres.....	...	...	...	...	...	...	...

State Table 3.—DRAINAGE PROJECTS, 1960,

Type of organization	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
		Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
				Projects reporting	Acres	Projects reporting	Acres
1 All projects.....	103	741,004	3,568	102	699,698	9	41,306
2 Drains owned by one landowner.....	...	...	...	...	...	...	...
3 Cooperative or mutual drains.....	4	6,940	...	4	6,940	...	...
4 Legally organized public drains.....	99	734,064	3,568	98	692,758	9	41,306

State Table 4.—DRAINAGE PROJECTS, 1960,

Year of organization	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
		Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
				Projects reporting	Acres	Projects reporting	Acres
1 All projects.....	103	741,004	3,568	102	699,698	9	41,306
2 1960-1959.....	4	33,300	1,064	3	3,604	4	29,696
3 Prior to 1960.....	99	707,704	2,504	99	696,094	5	11,610

PROJECTS, 1960, BY SIZE

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959								
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	
40	1,388,581	12	417,911	10	60.6	...	...	...	...	...	...	4
3	8,589	...	...	...	...	...	...	...	...	...	...	...
4	33,436	...	...	...	...	...	...	...	...	...	...	...
10	112,233	1	4,669	1	2.4	...	...	...	...	...	...	...
12	286,163	6	124,320	5	29.1	...	...	...	...	...	...	3
8	492,323	4	201,022	3	14.8	...	...	...	...	...	...	1
1	2,730	...	...	...	...	...	...	...	...	...	...	...
2	453,107	1	87,900	1	14.3	...	...	...	...	...	...	...
...

BY TYPE OF ORGANIZATION

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959									
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting	
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number		
40	1,388,581	12	417,911	10	60.6	...	...	...	...	...	...	4
...	...	...	...	...	...	...	...	...	...	...	...	2
...	...	...	...	...	...	...	...	...	...	...	...	3
40	1,388,581	12	417,911	10	60.6	...	...	...	...	...	...	4

BY YEAR OF ORGANIZATION

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959								
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	
40	1,388,581	12	417,911	10	60.6	...	...	...	...	...	...	4
4	209,415	4	186,120	3	29.0	...	...	...	...	...	...	2
36	1,179,166	8	231,791	7	31.6	...	...	...	...	...	...	2

DRAINAGE OF AGRICULTURAL LANDS

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

Item and Census year	The State	Antelope	Buffalo	Burt	Butler	Cass	Cedar	Cherry
AREA								
1 Approximate land area.....acres 1960...	49,031,680	545,920	609,280	309,760	372,480	354,560	475,520	3,626,480
2 Land in farms.....acres 1959...	47,755,708	533,929	602,435	300,066	363,397	327,920	462,005	3,689,084
3 Drainage projects.....number 1960...	103	1	3	5	4	1	3	5
4 1950...	473	3	43	6	9	1	3	4
5 Total area in drainage projects ¹.....acres served 1960...	744,207	1,760	2,460	75,120	21,674	4,720	6,572	49,320
6 1950...	821,088	1,793	5,558	72,520	19,734	1,580	6,572	28,229
7 Area not used for agriculture or not drained.....acres served 1960...	4,987	...	...	...	...	...	...	...
8 Net area drained and used for agriculture.....acres served 1960...	739,220	1,760	2,460	75,120	21,674	4,720	6,572	49,320
9 Drainage established before 1950.....acres served 1960...	697,914	1,760	2,460	75,120	19,394	4,720	6,572	49,320
10 Area added, 1950-1959.....acres served 1960...	41,306	...	...	...	2,280	...	...	...
11 Area served by two or more projects.....acres served 1960...	1,784	...	...	...	320	...	...	...
PROJECTS, 1960, BY TYPE OF ORGANIZATION								
12 Drains owned by one landowner.....number of projects...	...	...	...	...	...	...	...	...
13 acres served ²...	...	...	...	...	...	...	...	...
14 Cooperative or mutual drains.....number of projects...	4	...	3	...	...	...	...	1
15 acres served ² ...	6,940	...	2,460	...	...	...	...	4,480
16 Legally organized public drains.....number of projects...	99	1	...	5	4	1	3	4
17 acres served ² ...	734,064	1,760	...	75,120	21,994	4,720	6,572	44,840
PROJECTS, 1960, BY YEAR STARTED								
18 1950-1959.....number of projects...	4	...	...	...	...	...	...	...
19 acres served ² ...	33,300	...	...	...	...	...	...	...
20 Prior to 1950.....number of projects...	99	1	3	5	4	1	3	5
21 acres served ² ...	707,704	1,760	2,460	75,120	21,994	4,720	6,572	49,320
DRAINAGE OPERATIONS, 1950-1959 ³								
22 Cost of drainage works and services.....projects reporting...	40	...	...	1	3	...	...	...
23 dollars...	1,388,581	...	...	294,496	26,516	...	...	...
24 New drainage works constructed, enlarged, or installed.....projects reporting...	12	...	...	...	1	...	...	...
25 dollars...	417,911	...	...	...	2,973	...	...	...
26 Open ditches.....projects reporting...	10	...	...	...	1	...	...	...
27 length, miles...	60.6	...	...	...	3.0	...	...	...
28 Tile or covered drains.....projects reporting...	...	...	...	...	...	...	...	...
29 length, miles...	...	...	...	...	...	...	...	...
30 Levees or dikes.....projects reporting...	...	...	...	...	...	...	...	...
31 length, miles...	...	...	...	...	...	...	...	...
32 Pumps.....projects reporting...	...	...	...	...	...	...	...	...
33 number of pumps...	...	...	...	...	...	...	...	...
34 Other (see text).....projects reporting...	4	...	...	...	1	...	...	...
35 Cost of maintenance, operation, repair, and administration.....projects reporting...	36	...	...	1	3	...	...	...
36 dollars...	970,670	...	...	294,496	23,543	...	...	...

¹Land served by two or more projects counted only once.²Acres served by two projects are included for each project. See text.³Includes projects taken over by another project prior to 1960. See text.

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

Item and Census year		Colfax	Cuming	Dakota	Dawson	Dixon	Dodge	Douglas	Fillmore
AREA									
1	Approximate land area.....acres 1960...	259,200	365,440	163,200	1626,560	307,200	338,560	213,120	369,280
2	Land in farms.....acres 1959.....	250,469	360,331	154,945	1676,505	284,347	326,619	154,657	356,024
3	Drainage projects.....number 1960.....	2	6	2	1	4	2	3	3
4	.....1950.....	11	6	2	45	4	36	6	6
5	Total area in drainage projects ¹.....acres served 1960.....	41,317	34,646	12,290	6,216	14,760	97,870	40,720	9,580
6	.....1950.....	38,423	18,906	12,290	26,574	14,760	88,922	59,281	9,679
7	Area not used for agriculture or not drained.....acres served 1960.....	...	...	...	...	...	...	3,267	...
8	Net area drained and used for agriculture.....acres served 1960.....	41,317	34,646	12,290	6,216	14,760	97,870	37,453	9,580
9	Drainage established before 1960.....acres served 1960.....	41,317	19,826	12,290	6,216	14,760	94,070	37,453	9,580
10	Area added, 1950-1959.....acres served 1960.....	...	14,820	...	...	...	3,800	...	...
11	Area served by two or more projects.....acres served 1960.....	...	...	400	...	...	...	...	...
PROJECTS, 1960, BY TYPE OF ORGANIZATION									
12	Drains owned by one landowner.....number of projects.....	...	...	...	...	...	...	...	...
13	.....acres served ².....	...	...	...	...	...	...	...	...
14	Cooperative or mutual drains.....number of projects.....	...	...	...	...	...	...	...	...
15	.....acres served ³.....	...	...	...	...	...	...	...	...
16	Legally organized public drains.....number of projects.....	2	6	2	1	4	2	3	3
17	.....acres served ³	41,317	34,646	12,690	6,216	14,760	97,870	37,453	9,580
PROJECTS, 1960, BY YEAR STARTED									
18	1950-1959.....number of projects.....	...	3	...	...	...	...	...	...
19	.....acres served ³.....	...	17,200	...	...	...	...	...	...
20	Prior to 1950.....number of projects.....	2	3	2	1	4	2	3	3
21	.....acres served ³	41,317	17,446	12,690	6,216	14,760	97,870	37,453	9,580
DRAINAGE OPERATIONS, 1950-1959 ⁴									
22	Cost of drainage works and services.....projects reporting.....	2	4	2	1	...	1	...	...
23	.....dollars.....	4,311	105,198	188,530	11,117	...	88,632	...	...
24	New drainage works constructed, enlarged, or installed.....projects reporting.....	...	3	...	...	...	1	...	...
25	.....dollars.....	...	58,716	...	...	...	87,900	...	...
26	Open ditches.....projects reporting.....	...	3	...	...	...	1	...	...
27	.....length, miles.....	...	18.8	...	...	...	14.3	...	...
28	Tile or covered drains.....projects reporting.....	...	...	...	...	...	...	...	...
29	.....length, miles.....	...	...	...	...	...	...	...	...
30	Levees or dikes.....projects reporting.....	...	...	...	...	...	...	...	...
31	.....length, miles.....	...	...	...	...	...	...	...	...
32	Pumps.....projects reporting.....	...	...	...	...	...	...	...	...
33	.....number of pumps.....	...	...	...	...	...	...	...	...
34	Other (see text).....projects reporting.....	...	1	...	...	...	...	...	...
35	Cost of maintenance, operation, repair, and administration.....projects reporting.....	2	3	2	1	...	1	...	...
36	.....dollars.....	4,311	46,482	188,530	11,117	...	732	...	...

¹The excess of farm acreage over approximate land area is due to the fact that the entire acreage of a farm is tabulated as in the county in which the headquarters is located, even though part of the farm may be situated in an adjoining county.

²Land served by two or more projects counted only once.

³Acres served by two projects are included for each project. See text.

⁴Includes projects taken over by another project prior to 1960. See text.

DRAINAGE OF AGRICULTURAL LANDS

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

Item and Census year		Franklin	Frontier	Hamilton	Johnson	Kearney	Lincoln	Merrick	Nemaha
AREA									
1	Approximate land area.....acres 1940...	369,920	618,240	346,240	241,280	1,327,680	1,614,720	298,880	255,360
2	Land in farms.....acres 1959...	350,288	600,753	341,412	224,475	1,329,813	1,571,031	288,375	252,095
3	Drainage projects..... number 1940...	1	1	1	1	1	4	2	2
4	1950...	2	1	8	1	9	23	14	2
5	Total area in drainage projects ¹ acres served 1940...	1,285	720	520	2,880	15,000	13,162	14,496	3,640
6	1950...	1,375	720	247	2,880	15,294	43,738	14,887	5,844
7	Area not used for agriculture or not drained..... acres served 1940...	...	...	...	...	...	...	...	...
8	Net area drained and used for agriculture..... acres served 1940...	1,285	720	520	2,880	15,000	13,162	14,496	3,640
9	Drainage established before 1950..... acres served 1940...	1,285	720	520	2,880	15,000	12,272	14,496	3,640
10	Area added, 1950-1959..... acres served 1940...	...	...	...	...	...	890	...	...
11	Area served by two or more projects..... acres served 1940...	...	...	...	...	...	...	...	...
PROJECTS, 1940, BY TYPE OF ORGANIZATION									
12	Drains owned by one landowner..... number of projects...	...	...	...	...	...	...	...	...
13	acres served ²...	...	...	...	...	...	...	...	...
14	Cooperative or mutual drains..... number of projects...	...	...	...	...	...	...	...	...
15	acres served ²...	...	...	...	...	...	...	...	...
16	Legally organized public drains..... number of projects...	1	1	1	1	1	4	2	2
17	acres served ³ ...	1,285	720	520	2,880	15,000	13,162	14,496	3,640
PROJECTS, 1940, BY YEAR STARTED									
18	1950-1959..... number of projects...	...	...	...	...	...	...	...	...
19	acres served ³...	...	...	...	...	...	...	...	...
20	Prior to 1950..... number of projects...	1	1	1	1	1	4	2	2
21	acres served ³ ...	1,285	720	520	2,880	15,000	13,162	14,496	3,640
DRAINAGE OPERATIONS, 1950-1959 ⁴									
22	Cost of drainage works and services.....projects reporting...	...	...	1	1	1	3	1	2
23	dollars...	...	...	172	16,293	8,000	17,400	1,250	52,505
24	New drainage works constructed, enlarged, or installed.....projects reporting...	...	...	...	...	1	2	...	...
25	dollars...	...	...	...	...	7,500	13,800	...	...
26	Open ditches.....projects reporting...	...	...	...	...	1	2	...	...
27	length, miles...	...	...	...	...	1.8	3.0	...	...
28	Tile or covered drains.....projects reporting...	...	...	...	...	...	...	...	...
29	length, miles...	...	...	...	...	...	...	...	...
30	Levees or dikes.....projects reporting...	...	...	...	...	...	...	...	...
31	length, miles...	...	...	...	...	...	...	...	...
32	Pumps.....projects reporting...	...	...	...	...	...	...	...	...
33	number of pumps...	...	...	...	...	...	...	...	...
34	Other (see text).....projects reporting...	...	...	...	...	...	...	...	...
35	Cost of maintenance, operation, repair, and administration.....projects reporting...	...	...	1	1	1	1	1	2
36	dollars...	...	...	172	16,293	500	3,600	1,250	52,505

¹The excess of farm acreage over approximate land area is due to the fact that the entire acreage of a farm is tabulated as in the county in which the headquarters is located, even though part of the farm may be situated in an adjoining county.

²Land served by two or more projects counted only once.

³Acres served by two projects are included for each project. See text.

⁴Includes projects taken over by another project prior to 1960. See text.

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

Item and Census year	Otoe	Pawnee	Phelps	Platte	Folk	Richardson	Sary	Saunders
AREA								
1. Approximate land area.....acres 1960...	394,880	277,120	348,800	430,080	1,277,120	350,720	151,040	483,840
2. Land in farms.....acres 1959.....	382,368	248,994	341,170	404,301	1,284,272	326,599	128,361	461,104
3. Drainage projects..... number 1960.....	2	1	1	2	3	8	7	13
4..... 1950.....	3	1	4	4	11	3	8	14
5. Total area in drainage projects ¹ acres served 1960.....	15,260	7,180	7,840	18,727	2,480	58,044	24,270	47,255
6..... 1950.....	15,780	7,180	3,295	18,987	3,067	38,255	24,940	54,815
7. Area not used for agriculture or not drained..... acres served 1960.....	...	...	...	...	...	...	1,720	...
8. Net area drained and used for agriculture..... acres served 1960.....	15,260	7,180	7,840	18,727	2,480	58,044	22,550	47,255
9. Drainage established before 1950..... acres served 1960.....	15,260	7,180	3,200	18,727	2,480	58,044	22,550	47,255
10. Area added, 1950-1959..... acres served 1960.....	...	...	4,640	...	...	...	...	...
11. Area served by two or more projects..... acres served 1960.....	...	...	...	...	...	...	...	...
PROJECTS, 1960, BY TYPE OF ORGANIZATION								
12. Drains owned by one landowner..... number of projects.....	...	...	...	...	...	...	...	...
13..... acres served ².....	...	...	...	...	...	...	...	...
14. Cooperative or mutual drains..... number of projects.....	...	...	...	...	...	...	...	...
15..... acres served ³.....	...	...	...	...	...	...	...	...
16. Legally organized public drains..... number of projects.....	2	1	1	2	3	8	7	13
17..... acres served ³	15,260	7,180	7,840	18,727	2,480	58,044	22,550	47,255
PROJECTS, 1960, BY YEAR STARTED								
18. 1950-1959..... number of projects.....	...	...	...	...	...	...	...	...
19..... acres served ⁴.....	...	...	...	...	...	...	...	...
20. Prior to 1950..... number of projects.....	2	1	1	2	3	8	7	13
21..... acres served ⁴	15,260	7,180	7,840	18,727	2,480	58,044	22,550	47,255
DRAINAGE OPERATIONS, 1950-1959 ⁴								
22. Cost of drainage works and services..... projects reporting...	2	...	1	2	...	2	3	3
23..... dollars.....	133,545	...	44,015	6,259	...	21,131	71,528	61,257
24. New drainage works constructed, enlarged, or installed..... projects reporting...	1	...	1	...	...	...	...	1
25..... dollars.....	65,603	...	44,015	...	...	...	...	10,000
26. Open ditches..... projects reporting...	1	...	1	...	...	...	...	...
27..... length, miles.....	1.0	...	8.5	...	...	...	...	...
28. Tile or covered drains..... projects reporting...	...	...	...	...	...	...	...	...
29..... length, miles.....	...	...	...	...	...	...	...	...
30. Levees or dikes..... projects reporting...	...	...	...	...	...	...	...	...
31..... length, miles.....	...	...	...	...	...	...	...	...
32. Pumps..... projects reporting...	...	...	...	...	...	...	...	...
33..... number of pumps.....	...	...	...	...	...	...	...	...
34. Other (see text)..... projects reporting...	...	...	...	...	...	...	...	1
35. Cost of maintenance, operation, repair, and administration..... projects reporting...	2	...	...	2	...	2	3	3
36..... dollars.....	67,942	...	...	6,259	...	21,131	71,528	51,257

¹The excess of farm acreage over approximate land area is due to the fact that the entire acreage of a farm is tabulated as in the county in which the headquarters is located, even though part of the farm may be situated in an adjoining county.

²Land served by two or more projects counted only once.

³Acres served by two projects are included for each project. See text.

⁴Includes projects taken over by another project prior to 1960. See text.

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data.]

	Item and Census year	Scott Bluff	Seward	Stanton	Thayer	Thurston	Washington	Wayne	York	All other counties ¹
	AREA									
1	Approximate land area.....acres 1960....	2,464,640	366,080	275,840	369,280	248,320	247,680	283,520	369,280	12,503,040
2	Land in farms.....acres 1959....	2,534,706	397,246	264,815	362,162	217,281	239,042	275,176	357,835	11,993,014
3	Drainage projects..... number 1960....	1	1	6	2	4	6	1	2	...
4	..... 1950....	14	3	4	3	4	5	1	8	171
5	Total area in drainage projects ² acres served 1960....	11,233	2,300	18,920	4,520	15,740	35,120	1,560	3,030	...
6	..... 1950....	90,539	2,390	6,184	4,580	15,740	23,940	1,560	3,145	16,885
7	Area not used for agriculture or not drained..... acres served 1960....	...	...	...	...	...	...	...	...	...
8	Net area drained and used for agriculture..... acres served 1960....	11,233	2,300	18,920	4,520	15,740	35,120	1,560	3,030	...
9	Drainage established before 1960..... acres served 1960....	11,233	2,300	10,544	4,520	15,740	28,620	1,560	3,030	...
10	Area added, 1950-1959..... acres served 1960....	...	...	8,376	...	...	6,500	...	...	...
11	Area served by two or more projects..... acres served 1960....	...	...	1,064	...	...	...	...	...	...
	PROJECTS, 1960, BY TYPE OF ORGANIZATION									
12	Drains owned by one landowner..... number of projects....	...	...	...	...	...	...	...	...	...
13	..... acres served ³....	...	...	...	...	...	...	...	...	...
14	Cooperative or mutual drains..... number of projects....	...	...	...	...	...	...	...	...	...
15	..... acres served ³....	...	...	...	...	...	...	...	...	...
16	Legally organized public drains..... number of projects....	1	1	6	2	4	6	1	2	...
17	..... acres served ³	11,233	2,300	19,984	4,520	15,740	35,120	1,560	3,030	...
	PROJECTS, 1960, BY YEAR STARTED									
18	1950-1959..... number of projects....	...	...	1	...	...	1	...	...	...
19	..... acres served ³....	...	...	9,600	...	...	6,500	...	...	...
20	Prior to 1950..... number of projects....	1	1	5	2	4	5	1	2	...
21	..... acres served ³	11,233	2,300	10,384	4,520	15,740	28,620	1,560	3,030	...
	DRAINAGE OPERATIONS, 1950-1959 ⁴									
22	Cost of drainage works and services.....projects reporting....	1	1	2	...	...	3	...	1	...
23	..... dollars....	7,638	117	115,266	...	...	111,205	...	2,200	...
24	New drainage works constructed, enlarged, or installed.....projects reporting....	...	...	1	...	...	1	...	...	...
25	..... dollars....	...	...	107,306	...	...	20,098	...	...	...
26	Open ditches.....projects reporting....	...	...	1	...	...	...	...	...	...
27	..... length, miles....	...	...	10.2	...	...	...	...	...	...
28	Tile or covered drains.....projects reporting....	...	...	...	...	...	...	...	...	...
29	..... length, miles....	...	...	...	...	...	...	...	...	...
30	Levees or dikes.....projects reporting....	...	...	...	...	...	...	...	...	...
31	..... length, miles....	...	...	...	...	...	...	...	...	...
32	Pumps.....projects reporting....	...	...	...	...	...	...	...	...	...
33	..... number of pumps....	...	...	...	...	...	...	...	...	...
34	Other (see text).....projects reporting....	...	...	...	...	...	1	...	...	...
35	Cost of maintenance, operation, repair, and administration.....projects reporting....	1	1	1	...	...	3	...	1	...
36	..... dollars....	7,638	117	7,960	...	...	91,107	...	2,200	...

¹Includes Adams, Boone, Box Butte, Clay, Custer, Dawes, Gage, Garden, Hall, Harlan, Howard, Keith, Kimball, Morrill, Muckolls, Red Willow, Saline, Sherman, Sioux, and Valley counties.²The excess of farm acreage over approximate land area is due to the fact that the entire acreage of a farm is tabulated as in the county in which the headquarters is located, even though part of the farm may be situated in an adjoining county.³Land served by two or more projects counted only once.⁴Acres served by two projects are included for each project. See text.⁵Includes projects taken over by another project prior to 1960. See text.

State Table 1.—DRAINAGE PROJECTS—NUMBER, AREA, COST, AND WORKS, 1920 TO 1960

(See text for comparability of data.)

Item	1960 Census	1950 Census	1940 Census	1930 Census	1920 Census
AREA					
Approximate land area.....acres...	70,264,320	70,264,960	70,273,280	70,285,440	70,285,440
Land in farms.....acres...	10,942,936	7,063,525	3,785,106	4,080,906	2,357,163
Drainage projects.....number...	2	82	8	NA	NA
Total area in drainage projects.....acres served...	41,521	251,154	153,373	162,980	15,940
Area not used for agriculture or not drained.....acres served...	...	NA	NA	NA	NA
Net area drained and used for agriculture.....acres served...	41,521	NA	¹ 148,617	¹ 155,491	NA
Drainage established 10 years or more before Census date.....acres served...	41,521	NA	NA	NA	NA
Drainage established within 10 years of Census date.....acres served...	...	NA	NA	NA	NA
Area served by two or more projects.....acres served...	...	...	...	...	...
PROJECTS BY TYPE OF ORGANIZATION					
Drains owned by one landowner.....number of projects...	...	(²)	NA	NA	NA
.....acres served...	...	(²)	² 2,600	(²)	NA
Cooperative or mutual drains.....number of projects...	...	² 1	...	...	...
.....acres served...	...	² 2,500	...	...	...
Legally organized public drains.....number of projects...	2	² 4	NA	NA	NA
.....acres served...	41,521	² 125,595	² 24,398	² 80,756	NA
PROJECTS BY YEAR STARTED					
Started 10 years or more before Census date.....number of projects...	2	² 5	NA	NA	NA
.....acres served...	41,521	² 128,095	141,695	115,024	NA
Started within 10 years of Census date.....number of projects...	...	(²)	NA	NA	NA
.....acres served...	...	(²)	11,678	47,956	NA
OPERATIONS, 10-YEAR PERIOD PRECEDING CENSUS DATE					
Cost of drainage works and services.....projects reporting...	³ 3	² 5	NA	NA	NA
.....dollars...	219,902	193,919	NA	NA	NA
New drainage works constructed, enlarged, or installed.....projects reporting...	1	⁴ 2	NA	NA	NA
.....cost, dollars...	84,215	⁴ 62,292	NA	NA	NA
Open ditches.....projects reporting...	1	2	NA	NA	NA
.....length, miles...	36.5	21	NA	NA	NA
Tile or covered drains.....projects reporting...	...	...	NA	NA	NA
.....length, miles...	...	...	NA	NA	NA
Levees or dikes.....projects reporting...	...	...	NA	NA	NA
.....length, miles...	...	...	NA	NA	NA
Pumps.....projects reporting...	1	NA	NA	NA	NA
.....number of pumps...	4	NA	NA	NA	NA
Other (see text).....projects reporting...	...	NA	NA	NA	NA
Cost of maintenance, operation, repair, and administration.....projects reporting...	3	NA	NA	NA	NA
.....dollars...	135,687	131,627	NA	NA	NA
STATUS ON CENSUS DATE					
Capital investment.....dollars...	NA	NA	1,337,647	1,349,774	117,851
Physical works:					
Open ditches.....length, miles...	NA	NA	426.4	334.8	16.6
Tile drains.....length, miles...	NA	NA	...	4.0	4.0
Levees and dikes.....length, miles...	NA	NA	23.0	33.0	...
Pumping units.....number of units...	NA	(²)	3	2	...

NA Not available.

¹Not fully comparable. See text.²1950 figures exclude 77 projects and 123,059 acres in "irrigation enterprises"; 1940 figures exclude 126,375 acres in "irrigation enterprises"; 1930 figures exclude 82,224 acres in "irrigation enterprises."³Includes projects taken over by another project prior to 1960. See text.⁴Cost of new works for lands not previously drained.

DRAINAGE OF AGRICULTURAL LANDS

State Table 2.—DRAINAGE

Size of project (Based on area of agricultural land in project)	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
		Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
				Projects reporting	Acres	Projects reporting	Acres
1 All projects.....	2	41,521	...	2	41,521	...	...
2 500 to 999 acres.....	...	...	...	...	...	...	...
3 1,000 to 1,999 acres.....	...	...	...	...	...	...	...
4 2,000 to 4,999 acres.....	1	2,500	...	1	2,500	...	...
5 5,000 to 9,999 acres.....	...	...	...	...	...	...	...
6 10,000 to 19,999 acres.....	...	...	...	...	...	...	...
7 20,000 to 49,999 acres.....	1	39,021	...	1	39,021	...	...
8 50,000 to 99,999 acres.....	...	...	...	...	...	...	...
9 100,000 or more acres.....	...	...	...	...	...	...	...

¹Includes projects taken over by another project prior to 1960. See text.

State Table 3.—DRAINAGE PROJECTS, 1960,

Type of organization	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
		Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
				Projects reporting	Acres	Projects reporting	Acres
1 All projects.....	2	41,521	...	2	41,521	...	...
2 Drains owned by one landowner.....	...	...	...	...	...	...	...
3 Cooperative or mutual drains.....	...	...	...	...	...	...	...
4 Legally organized public drains.....	2	41,521	...	2	41,521	...	...

¹Includes projects taken over by another project prior to 1960. See text.

State Table 4.—DRAINAGE PROJECTS, 1960,

Year of organization	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
		Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
				Projects reporting	Acres	Projects reporting	Acres
1 All projects.....	2	41,521	...	2	41,521	...	...
2 1950-1959.....	...	...	...	...	...	...	...
3 Prior to 1950.....	2	41,521	...	2	41,521	...	...

¹Includes projects taken over by another project prior to 1960. See text.

PROJECTS, 1960, BY SIZE

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959									
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting	
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number		
13	219,902	1	84,215	1	36.5	...	...	...	...	1	4	...	1
...	...	...	...	...	...	...	...	...	...	...	...	...	2
...	...	...	...	...	...	...	...	...	...	...	...	...	3
1	3,914	...	...	...	...	...	...	...	...	...	...	...	4
...	...	...	...	...	...	...	...	...	...	...	...	...	5
...	...	...	...	...	...	...	...	...	...	...	...	...	6
12	215,988	1	84,215	1	36.5	...	...	...	...	1	4	...	7
...	...	...	...	...	...	...	...	...	...	...	...	...	8
...	...	...	...	...	...	...	...	...	...	...	...	...	9

BY TYPE OF ORGANIZATION

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959								
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	
13	219,902	1	84,215	1	36.5	...	...	...	...	1	4	...
...
...
13	219,902	1	84,215	1	36.5	...	...	...	...	1	4	...

BY YEAR OF ORGANIZATION

Coet of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959									
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting	
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number		
13	219,902	1	84,215	1	36.5	...	...	...	...	1	4	...	1
...	...	...	...	...	...	...	...	...	...	...	...	...	2
13	219,902	1	84,215	1	36.5	...	...	...	...	1	4	...	3

DRAINAGE OF AGRICULTURAL LANDS

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data.]

Item and Census year		The State	Pershing	Washoe	All other counties ¹
AREA					
1	Approximate land area.....acres 1960...	70,264,320	3,835,520	4,019,840	51,651,200
2	Land in farms.....acres 1959...	10,942,936	882,936	1,237,291	7,860,797
3	Drainage projects.....number 1960...	2	1	1	...
4	.....1950...	82	12	12	62
5	Total area in drainage projects ².....acres served 1960...	41,521	39,021	2,500	...
6	.....1950...	251,154	64,164	8,252	178,738
7	Area not used for agriculture or not drained.....acres served 1960...	...	...	...	...
8	Net area drained and used for agriculture.....acres served 1960...	41,521	39,021	2,500	...
9	Drainage established before 1950.....acres served 1960...	41,521	39,021	2,500	...
10	Area added, 1950-1959.....acres served 1960...	...	...	...	...
11	Area served by two or more projects.....acres served 1960...	...	...	...	...
PROJECTS, 1960, BY TYPE OF ORGANIZATION					
12	Drains owned by one landowner.....number of projects...	...	...	...	...
13	.....acres served ³...	...	...	...	...
14	Cooperative or mutual drains.....number of projects...	...	...	...	...
15	.....acres served ³...	...	...	...	...
16	Legally organized public drains.....number of projects...	2	1	1	...
17	.....acres served ³ ...	41,521	39,021	2,500	...
PROJECTS, 1960, BY YEAR STARTED					
18	1950-1959.....number of projects...	...	...	...	...
19	.....acres served ³...	...	...	...	...
20	Prior to 1950.....number of projects...	2	1	1	...
21	.....acres served ³ ...	41,521	39,021	2,500	...
DRAINAGE OPERATIONS, 1950-1959 ⁴					
22	Cost of drainage works and services.....projects reporting...	3	2	1	...
23	.....dollars...	219,902	215,988	3,914	...
24	New drainage works constructed, enlarged, or installed.....projects reporting...	1	1	...	...
25	.....dollars...	84,215	84,215	...	...
26	Open ditches.....projects reporting...	1	1	...	...
27	.....length, miles...	36.5	36.5	...	...
28	Tile or covered drains.....projects reporting...	...	...	...	...
29	.....length, miles...	...	...	...	...
30	Levees or dikes.....projects reporting...	...	...	...	...
31	.....length, miles...	...	...	...	...
32	Pumps.....projects reporting...	1	1	...	...
33	.....number of pumps...	4	4	...	...
34	Other (see text).....projects reporting...	...	...	...	...
35	Cost of maintenance, operation, repair, and administration.....projects reporting...	3	2	1	...
36	.....dollars...	135,687	131,773	3,914	...

¹Includes Churchill, Clark, Douglas, Elko, Esmeralda, Humboldt, Lander, Lincoln, Lyon, Nye, Ormsby, and Storey counties.²Land served by two or more projects counted only once.³Acres served by two projects are included for each project. See text.⁴Includes projects taken over by another project prior to 1960. See text.

State Table 1.—DRAINAGE PROJECTS—NUMBER, AREA, COST, AND WORKS, 1920 TO 1960

[See text for comparability of data]

Item	1960 Census	1950 Census	1940 Census	1930 Census	1920 Census
AREA					
Approximate land area.....acres...	4,813,440	4,814,080	4,814,080	4,808,960	4,808,960
Land in farms.....acres...	1,379,002	1,725,441	1,874,402	1,758,027	2,282,585
Drainage projects.....number...	9	5	...	...	...
Total area in drainage projects.....acres served...	11,756	11,206	...	...	...
Area not used for agriculture or not drained.....acres served...	800	NA	...	...	...
Net area drained and used for agriculture.....acres served...	10,956	NA	...	...	...
Drainage established 10 years or more before Census date.....acres served...	6,106	NA	...	...	...
Drainage established within 10 years of Census date.....acres served...	4,850	NA	...	...	...
Area served by two or more projects.....acres served...	...	...	...	...	...
PROJECTS BY TYPE OF ORGANIZATION					
Drains owned by one landowner.....number of projects...	...	...	...	...	...
.....acres served...	...	...	...	...	...
Cooperative or mutual drains.....number of projects...	9	4	...	...	...
.....acres served...	10,956	6,906	...	...	...
Legally organized public drains.....number of projects...	...	1	...	...	...
.....acres served...	...	4,300	...	...	...
PROJECTS BY YEAR STARTED					
Started 10 years or more before Census date.....number of projects...	4	1	...	...	...
.....acres served...	6,306	4,300	...	...	...
Started within 10 years of Census date.....number of projects...	5	4	...	...	...
.....acres served...	4,650	6,906	...	...	...
OPERATIONS, 10-YEAR PERIOD PRECEDING CENSUS DATE					
Cost of drainage works and services.....projects reporting...	8	5	...	...	...
.....dollars...	40,617	39,357	...	...	...
New drainage works constructed, enlarged, or installed.....projects reporting...	7	15	...	...	...
.....cost, dollars...	39,967	134,407	...	...	...
Open ditches.....projects reporting...	7	5	...	...	...
.....length, miles...	13.6	12	...	...	...
Tile or covered drains.....projects reporting...	3	2	...	...	...
.....length, miles...	5.0	2	...	...	...
Levees or dikes.....projects reporting...	...	...	...	...	...
.....length, miles...	...	...	...	...	...
Pumps.....projects reporting...	...	NA	...	...	...
.....number of pumps...	...	NA	...	...	...
Other (see text).....projects reporting...	...	NA	...	...	...
Cost of maintenance, operation, repair, and administration.....projects reporting...	1	NA	...	...	...
.....dollars...	650	4,950	...	...	...
STATUS ON CENSUS DATE					
Capital investment.....dollars...	NA	NA	...	...	...
Physical works:					
Open ditches.....length, miles...	NA	NA	...	...	...
Tile drains.....length, miles...	NA	NA	...	...	...
Levees and dikes.....length, miles...	NA	NA	...	...	...
Pumping units.....number of units...	NA	...	...	...	...

NA Not available.

¹Cost of new works for lands not previously drained.

DRAINAGE OF AGRICULTURAL LANDS

State Table 2.—DRAINAGE

	Size of project (Based on area of agricultural land in project)	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
			Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
					Projects reporting	Acres	Projects reporting	Acres
1	All projects.....	9	10,956	...	4	6,106	7	4,850
2	500 to 999 acres.....	5	3,400	...	1	750	4	2,650
3	1,000 to 1,999 acres.....	2	2,600	...	2	2,400	2	200
4	2,000 to 4,999 acres.....	2	4,956	...	1	2,956	1	2,000
5	5,000 to 9,999 acres.....	...	...	...	...	...	...	...
6	10,000 to 19,999 acres.....	...	...	...	...	...	...	...
7	20,000 to 49,999 acres.....	...	...	...	...	...	...	...
8	50,000 to 99,999 acres.....	...	...	...	...	...	...	...
9	100,000 or more acres.....	...	...	...	...	...	...	...

State Table 3.—DRAINAGE PROJECTS, 1960,

	Type of organization	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
			Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
					Projects reporting	Acres	Projects reporting	Acres
1	All projects.....	9	10,956	...	4	6,106	7	4,850
2	Drains owned by one landowner.....	...	...	...	...	...	...	...
3	Cooperative or mutual drains.....	9	10,956	...	4	6,106	7	4,850
4	Legally organized public drains.....	...	...	...	...	...	...	...

State Table 4.—DRAINAGE PROJECTS, 1960,

	Year of organization	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
			Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
					Projects reporting	Acres	Projects reporting	Acres
1	All projects.....	9	10,956	...	4	6,106	7	4,850
2	1950-1959.....	5	4,650	...	...	...	5	4,650
3	Prior to 1950.....	4	6,306	...	4	6,106	2	200

PROJECTS, 1960, BY SIZE

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959								
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	
8	40,617	7	39,967	7	13.6	3	5.0	...	...	...	...	...
4	19,118	4	19,118	4	5.6	1	1.0	...	...	...	...	...
2	7,500	2	7,500	2	3.5	1	1.0	...	...	...	...	...
2	13,999	1	13,349	1	4.5	1	3.0	...	...	...	...	...
...
...
...
...
...
...

BY TYPE OF ORGANIZATION

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959									
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting	
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number		
8	40,617	7	39,967	7	13.6	3	5.0	...	...	...	...	...	1
...	...	...	...	...	...	...	...	...	...	...	...	...	2
8	40,617	7	39,967	7	13.6	3	5.0	...	...	...	...	...	3
...	...	...	...	...	...	...	...	...	...	...	...	...	4

BY YEAR OF ORGANIZATION

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959								
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	
8	40,617	7	39,967	7	13.6	3	5.0	...	...	...	...	...
5	32,467	5	32,467	5	10.1	2	4.0	...	...	...	...	...
3	8,150	2	7,500	2	3.5	1	1.0	...	...	...	...	...

DRAINAGE OF AGRICULTURAL LANDS

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

Item and Census year		The State	Bergen	Burlington	Middlesex	Monmouth	Ocean
AREA							
1	Approximate land area.....acres 1960...	4,813,440	149,120	524,160	199,680	305,280	408,960
2	Land in farms.....acres 1959...	1,379,002	7,456	184,727	42,764	105,548	28,395
3	Drainage projects.....number 1960...	9	...	1	6	3	1
4	1950...	5	1	1	1	2	1
5	Total area in drainage projects ¹.....acres served 1960...	11,756	...	2,956	5,050	3,000	750
6	1950...	11,206	4,300	2,956	400	2,800	750
7	Area not used for agriculture or not drained.....acres served 1960...	800	...	...	...	800	...
8	Net area drained and used for agriculture.....acres served 1960...	10,956	...	2,956	5,050	2,200	750
9	Drainage established before 1950.....acres served 1960...	6,206	...	2,956	400	2,000	750
10	Area added, 1950-1959.....acres served 1960...	4,850	...	...	4,650	200	...
11	Area served by two or more projects.....acres served 1960...	...	...	...	...	...	...
PROJECTS, 1960, BY TYPE OF ORGANIZATION							
12	Drains owned by one landowner.....number of projects...	...	...	...	...	...	...
13	acres served ²...	...	...	...	...	...	...
14	Cooperative or mutual drains.....number of projects...	9	...	1	6	3	1
15	acres served ² ...	10,956	...	2,956	5,050	2,200	750
16	Legally organized public drains.....number of projects...	...	...	...	...	...	...
17	acres served ²...	...	...	...	...	...	...
PROJECTS, 1960, BY YEAR STARTED							
18	1950-1959.....number of projects...	5	...	...	5	1	...
19	acres served ² ...	4,650	...	...	4,600	50	...
20	Prior to 1950.....number of projects...	4	...	1	1	2	1
21	acres served ² ...	6,306	...	2,956	450	2,150	750
DRAINAGE OPERATIONS, 1950-1959 ³							
22	Cost of drainage works and services.....projects reporting...	8	...	1	6	3	...
23	dollars...	40,617	...	650	34,117	5,850	...
24	New drainage works constructed, enlarged, or installed.....projects reporting...	7	...	...	6	3	...
25	dollars...	39,967	...	...	34,117	5,850	...
26	Open ditches.....projects reporting...	7	...	...	6	3	...
27	length, miles...	13.6	...	...	11.0	2.6	...
28	Tile or covered drains.....projects reporting...	3	...	...	2	1	...
29	length, miles...	5.0	...	...	4.0	1.0	...
30	Levees or dikes.....projects reporting...	...	...	...	...	...	...
31	length, miles...	...	...	...	...	...	...
32	Pumps.....projects reporting...	...	...	...	...	...	...
33	number of pumps...	...	...	...	...	...	...
34	Other (see text).....projects reporting...	...	...	...	...	...	...
35	Cost of maintenance, operation, repair, and administration.....projects reporting...	1	...	1	...	...	...
36	dollars...	650	...	650	...	...	...

¹Land served by two or more projects counted only once.²Acres served by two projects are included for each project. See text.³Includes projects taken over by another project prior to 1960. See text.

State Table 1.—DRAINAGE PROJECTS—NUMBER, AREA, COST, AND WORKS, 1920 TO 1960

[See text for comparability of data.]

Item	1960 Census	1950 Census	1940 Census	1930 Census	1920 Census
AREA					
Approximate land area.....acres...	77,766,400	77,767,040	77,767,040	78,401,920	78,401,920
Land in farms.....acres...	46,293,207	47,521,809	38,860,427	30,822,034	24,409,633
Drainage projects.....number...	5	223	7	NA	NA
Total area in drainage projects.....acres served...	31,593	244,961	305,885	176,292	140,219
Area not used for agriculture or not drained.....acres served...	...	NA	NA	NA	NA
Net area drained and used for agriculture.....acres served...	31,593	NA	1286,890	151,516	NA
Drainage established 10 years or more before Census date.....acres served...	30,293	NA	NA	NA	NA
Drainage established within 10 years of Census date.....acres served...	1,300	NA	NA	NA	NA
Area served by two or more projects.....acres served...	...	...	...	...	...
PROJECTS BY TYPE OF ORGANIZATION					
Drains owned by one landowner.....number of projects...	1	(2)	NA	NA	NA
.....acres served...	600	(2)	(2)	(2)	NA
Cooperative or mutual drains.....number of projects...	...	(2)	...	...	...
.....acres served...	...	(2)	...	...	...
Legally organized public drains.....number of projects...	4	25	NA	NA	NA
.....acres served...	30,993	252,113	2172,796	259,837	NA
PROJECTS BY YEAR STARTED					
Started 10 years or more before Census date.....number of projects...	4	25	NA	NA	NA
.....acres served...	30,993	252,113	298,685	171,552	NA
Started within 10 years of Census date.....number of projects...	1	(2)	NA	NA	NA
.....acres served...	600	(2)	7,200	4,740	NA
OPERATIONS, 10-YEAR PERIOD PRECEDING CENSUS DATE					
Cost of drainage works and services.....projects reporting...	5	25	NA	NA	NA
.....dollars...	127,433	74,636	NA	NA	NA
New drainage works constructed, enlarged, or installed.....projects reporting...	2	...	NA	NA	NA
.....cost, dollars...	70,840	...	NA	NA	NA
Open ditches.....projects reporting...	2	...	NA	NA	NA
.....length, miles...	6.3	...	NA	NA	NA
Tile or covered drains.....projects reporting...	...	...	NA	NA	NA
.....length, miles...	...	...	NA	NA	NA
Levees or dikes.....projects reporting...	...	...	NA	NA	NA
.....length, miles...	...	...	NA	NA	NA
Pumps.....projects reporting...	...	NA	NA	NA	NA
.....number of pumps...	...	NA	NA	NA	NA
Other (see text).....projects reporting...	...	NA	NA	NA	NA
Cost of maintenance, operation, repair, and administration.....projects reporting...	3	NA	NA	NA	NA
.....dollars...	56,593	74,636	NA	NA	NA
STATUS ON CENSUS DATE					
Capital investment.....dollars...	NA	NA	5,722,121	3,279,371	1,710,796
Physical works:					
Open ditches.....length, miles...	NA	NA	625.2	282.9	124.0
Tile drains.....length, miles...	NA	NA	308.9	305.4	282.2
Levees and dikes.....length, miles...	NA	NA	181.3	12.0	...
Pumping units.....number of units...	NA	(2)	...	...	...

NA Not available.

1960 figures exclude 216 projects.

21950 figures exclude 216 projects and 192,848 acres in "irrigation enterprises"; 1940 figures exclude 133,089 acres in "irrigation enterprises"; 1930 figures exclude 116,455 acres in "irrigation enterprises."

DRAINAGE OF AGRICULTURAL LANDS

State Table 2.—DRAINAGE

	Size of project (Based on area of agricultural land in project)	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
			Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
					Projects reporting	Acres	Projects reporting	Acres
1	All projects.....	5	31,593	...	4	30,293	2	1,300
2	500 to 999 acres.....	1	600	...	...	...	1	600
3	1,000 to 1,999 acres.....	1	1,000	...	1	300	1	700
4	2,000 to 4,999 acres.....	...	...	...	...	...	...	...
5	5,000 to 9,999 acres.....	2	15,018	...	2	15,018	...	...
6	10,000 to 19,999 acres.....	1	14,975	...	1	14,975	...	...
7	20,000 to 49,999 acres.....	...	...	...	...	...	...	...
8	50,000 to 99,999 acres.....	...	...	...	...	...	...	...
9	100,000 or more acres.....	...	...	...	...	...	...	...

State Table 3.—DRAINAGE PROJECTS, 1960,

	Type of organization	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
			Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
					Projects reporting	Acres	Projects reporting	Acres
1	All projects.....	5	31,593	...	4	30,293	2	1,300
2	Drains owned by one landowner.....	1	600	...	...	...	1	600
3	Cooperative or mutual drains.....	...	...	...	...	...	...	...
4	Legally organized public drains.....	4	30,993	...	4	30,293	1	700

State Table 4.—DRAINAGE PROJECTS, 1960,

	Year of organization	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
			Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
					Projects reporting	Acres	Projects reporting	Acres
1	All projects.....	5	31,593	...	4	30,293	2	1,300
2	1950-1959.....	1	600	...	...	...	1	600
3	Prior to 1950.....	4	30,993	...	4	30,293	1	700

PROJECTS, 1960, BY SIZE

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959								
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	
5	127,433	2	70,840	2	6.3	...	...	...	...	...	...	...
1	50,840	1	50,840	1	3.8	...	...	...	...	...	...	...
1	20,000	1	20,000	1	2.5	...	...	...	...	...	...	...
...
2	42,593	...	...	...	...	...	...	...	...	...	...	...
1	14,000	...	...	...	...	...	...	...	...	...	...	...
...
...
...
...

BY TYPE OF ORGANIZATION

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959									
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting	
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number		
5	127,433	2	70,840	2	6.3	...	...	...	...	...	...	...	1
1	50,840	1	50,840	1	3.8	...	...	...	...	...	...	...	2
...	...	...	...	...	...	...	...	...	...	...	...	...	3
4	76,593	1	20,000	1	2.5	...	...	...	...	...	...	...	4

BY YEAR OF ORGANIZATION

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959								
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	
5	127,433	2	70,840	2	6.3	...	...	...	...	...	...	...
1	50,840	1	50,840	1	3.8	...	...	...	...	...	...	...
4	76,593	1	20,000	1	2.5	...	...	...	...	...	...	...

DRAINAGE OF AGRICULTURAL LANDS

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data.]

Item and Census year		The State	Chaves	Eddy	Valencia	All other counties ¹
AREA						
1	Approximate land area.....acres 1960...	77,766,400	3,900,160	2,664,320	3,620,480	44,255,640
2	Land in farms.....acres 1959...	46,293,207	2,824,518	1,156,260	2,589,724	23,308,134
3	Drainage projects.....number 1960...	5	3	1	1	...
4	.....1950...	223	147	16	3	64
5	Total area in drainage projects ².....acres served 1960...	31,593	29,993	600	1,000	...
6	.....1950...	244,961	74,912	21,952	23,428	124,669
7	Area not used for agriculture or not drained.....acres served 1960...	...	...	...	...	...
8	Net area drained and used for agriculture.....acres served 1960...	31,593	29,993	600	1,000	...
9	Drainage established before 1950.....acres served 1960...	30,293	29,993	...	300	...
10	Area added, 1950-1959.....acres served 1960...	1,300	...	600	700	...
11	Area served by two or more projects.....acres served 1960...	...	...	...	...	...
PROJECTS, 1960, BY TYPE OF ORGANIZATION						
12	Drains owned by one landowner.....number of projects...	1	...	1	...	...
13	.....acres served ³ ...	600	...	600	...	...
14	Cooperative or mutual drains.....number of projects...	...	...	...	...	...
15	.....acres served ³...	...	...	...	...	...
16	Legally organized public drains.....number of projects...	4	3	...	1	...
17	.....acres served ³ ...	30,993	29,993	...	1,000	...
PROJECTS, 1960, BY YEAR STARTED						
18	1950-1959.....number of projects...	1	...	1	...	...
19	.....acres served ³ ...	600	...	600	...	...
20	Prior to 1950.....number of projects...	4	3	...	1	...
21	.....acres served ³ ...	30,993	29,993	...	1,000	...
DRAINAGE OPERATIONS, 1950-1959 ⁴						
22	Cost of drainage works and services.....projects reporting...	5	3	1	1	...
23	.....dollars...	127,433	56,593	(⁵)	(⁵)	...
24	New drainage works constructed, enlarged, or installed.....projects reporting...	2	...	(⁵)	(⁵)	...
25	.....dollars...	70,840	...	(⁵)	(⁵)	...
26	Open ditches.....projects reporting...	2	...	(⁵)	(⁵)	...
27	.....length, miles...	63	...	(⁵)	(⁵)	...
28	Tile or covered drains.....projects reporting...	...	...	...	...	...
29	.....length, miles...	...	...	...	...	...
30	Levees or dikes.....projects reporting...	...	...	...	...	...
31	.....length, miles...	...	...	...	...	...
32	Pumps.....projects reporting...	...	...	...	...	...
33	.....number of pumps...	...	...	...	...	...
34	Other (see text).....projects reporting...	...	...	...	...	...
35	Cost of maintenance, operation, repair, and administration.....projects reporting...	3	3	...	...	...
36	.....dollars...	56,593	56,593	...	...	...

¹Includes Bernalillo, Colfax, Curry, De Baca, Dona Ana, Lincoln, Luna, McKinley, Mora, Otero, Rio Arriba, Sandoval, San Juan, San Miguel, Santa Fe, Sierra, Socorro, and Taos counties.²Land served by two or more projects counted only once.³Acres served by two projects are included for each project. See text.⁴Includes projects taken over by another project prior to 1960. See text.⁵Included in State total only.

State Table 1.—DRAINAGE PROJECTS—NUMBER, AREA, COST, AND WORKS, 1920 TO 1960

[See text for comparability of data]

Item	1960 Census	1950 Census	1940 Census	1930 Census	1920 Census
AREA					
Approximate land area.....acres...	30,680,960	30,684,160	30,674,560	30,498,560	30,498,560
Land in farms.....acres...	13,489,516	16,016,721	17,170,337	17,979,633	20,632,803
Drainage projects.....number...	19	14	...	...	...
Total area in drainage projects.....acres served...	49,616	56,465	...	...	...
Area not used for agriculture or not drained.....acres served...	...	NA	...	...	...
Net area drained and used for agriculture.....acres served...	49,616	NA	...	...	...
Drainage established 10 years or more before Census date.....acres served...	45,165	NA	...	...	...
Drainage established within 10 years of Census date.....acres served...	4,451	NA	...	...	...
Area served by two or more projects.....acres served...	...	...	...	...	...
PROJECTS BY TYPE OF ORGANIZATION					
Drains owned by one landowner.....number of projects...	2	5	...	...	...
.....acres served...	1,300	2,638	...	...	...
Cooperative or mutual drains.....number of projects...	13	5	...	...	...
.....acres served...	20,071	25,582	...	...	...
Legally organized public drains.....number of projects...	4	4	...	...	...
.....acres served...	28,245	28,245	...	...	...
PROJECTS BY YEAR STARTED					
Started 10 years or more before Census date.....number of projects...	13	6	...	...	...
.....acres served...	45,165	29,502	...	...	...
Started within 10 years of Census date.....number of projects...	6	8	...	...	...
.....acres served...	4,451	26,963	...	...	...
OPERATIONS, 10-YEAR PERIOD PRECEDING CENSUS DATE					
Cost of drainage works and services.....projects reporting...	13	12	...	...	...
.....dollars...	202,013	177,224	...	...	...
New drainage works constructed, enlarged, or installed.....projects reporting...	7	17	...	...	...
.....cost, dollars...	86,009	175,119	...	...	...
Open ditches.....projects reporting...	7	7	...	...	...
.....length, miles...	25.5	31	...	...	...
Tile or covered drains.....projects reporting...	2	...	...	...	...
.....length, miles...	19.8	...	...	...	...
Levees or dikes.....projects reporting...	1	1	...	...	...
.....length, miles...	5.5	2	...	...	...
Pumps.....projects reporting...	1	NA	...	...	...
.....number of pumps...	2	NA	...	...	...
Other (see text).....projects reporting...	1	NA	...	...	...
Cost of maintenance, operation, repair, and administration.....projects reporting...	9	NA	...	...	...
.....dollars...	116,004	102,105	...	...	...
STATUS ON CENSUS DATE					
Capital investment.....dollars...	NA	NA	...	...	...
Physical works:					
Open ditches.....length, miles...	NA	NA	...	...	...
Tile drains.....length, miles...	NA	NA	...	...	...
Levees and dikes.....length, miles...	NA	NA	...	...	...
Pumping units.....number of units...	NA	...	...	...	...

NA Not available.

¹Cost of new works for lands not previously drained.

State Table 2.—DRAINAGE

	Size of project (Based on area of agricultural land in project)	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
			Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
					Projects reporting	Acres	Projects reporting	Acres
1	All projects.....	19	49,616	...	13	45,165	6	4,451
2	500 to 999 acres.....	14	8,871	...	9	5,771	5	3,100
3	1,000 to 1,999 acres.....	2	2,351	...	1	3,000	1	1,351
4	2,000 to 4,999 acres.....	...	...	...	...	...	...	...
5	5,000 to 9,999 acres.....	1	8,500	...	1	8,500	...	...
6	10,000 to 19,999 acres.....	2	29,894	...	2	29,894	...	...
7	20,000 to 49,999 acres.....	...	...	...	...	...	...	...
8	50,000 to 99,999 acres.....	...	...	...	...	...	...	...
9	100,000 or more acres.....	...	...	...	...	...	...	...

State Table 3.—DRAINAGE PROJECTS, 1960,

	Type of organization	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
			Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
					Projects reporting	Acres	Projects reporting	Acres
1	All projects.....	19	49,616	...	13	45,165	6	4,451
2	Drains owned by one landowner.....	2	1,300	...	...	...	2	1,300
3	Cooperative or mutual drains.....	13	20,071	...	9	16,920	4	3,151
4	Legally organized public drains.....	4	28,245	...	4	28,245	...	...

State Table 4.—DRAINAGE PROJECTS, 1960,

	Year of organization	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
			Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
					Projects reporting	Acres	Projects reporting	Acres
1	All projects.....	19	49,616	...	13	45,165	6	4,451
2	1950-1959.....	6	4,451	...	...	...	6	4,451
3	Prior to 1950.....	13	45,165	...	13	45,165	...	...

PROJECTS, 1960, BY SIZE

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959								
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	
13	202,013	7	86,009	7	25.5	2	19.8	1	5.5	1	2	1
8	97,411	5	73,686	5	16.0	2	19.8	...	...	...	...	1
2	39,745	2	12,323	2	9.5	...	...	1	5.5	1	2	...
...
1	14,400	...	...	...	...	...	...	...	...	...	...	...
2	50,457	...	...	...	...	...	...	...	...	...	...	...
...
...
...
...

BY TYPE OF ORGANIZATION

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959								
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	
13	202,013	7	86,009	7	25.5	2	19.8	1	5.5	1	2	1
2	24,765	2	24,765	2	3.8	1	0.8	...	...	...	...	1
9	126,848	5	61,244	5	21.7	1	19.0	1	5.5	1	2	...
2	50,400	...	...	...	...	...	...	...	...	...	...	...

BY YEAR OF ORGANIZATION

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959								
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	
13	202,013	7	86,009	7	25.5	2	19.8	1	5.5	1	2	1
6	64,231	5	43,009	5	12.5	1	0.8	1	5.5	1	2	1
7	137,782	2	43,000	2	13.0	1	19.0	...	...	...	...	...

DRAINAGE OF AGRICULTURAL LANDS

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

Item and Census year	The State	Franklin	Genesee	Madison	Monroe	Oneida	Orange	Orleans	Seneca	Steuben	Wayne
AREA											
1 Approximate land area.....acres 1960...	30,680,960	1,078,400	320,640	423,040	430,720	785,280	530,560	253,440	211,200	901,120	388,480
2 Land in farms.....acres 1950...	13,489,516	244,054	239,333	302,334	215,900	408,853	235,153	175,732	132,005	567,380	275,397
3 Drainage projects.....number 1960...	19	1	2	1	3	2	1	2	3	2	5
4 1950...	14	...	1	1	1	3	1	2	1	2	4
6 Total area in drainage projects ¹.....acres served 1960...	49,616	600	5,137	8,500	1,375	1,670	18,200	8,132	2,395	1,257	2,350
7 1950...	56,465	...	4,437	8,500	175	2,970	18,200	8,132	10,944	1,257	1,850
6 Area not used for agriculture or not drained.....acres served 1960...	...	...	...	...	...	...	...	...	...	...	...
8 Not area drained and used for agriculture.....acres served 1960...	49,616	600	5,137	8,500	1,375	1,670	18,200	8,132	2,395	1,257	2,350
9 Drainage established before 1950.....acres served 1960...	45,165	...	4,437	8,500	175	1,670	18,200	8,132	944	1,257	1,850
10 Area added, 1950-1959.....acres served 1960...	4,451	600	700	...	1,200	...	...	...	1,451	...	500
11 Area served by two or more projects.....acres served 1960...	...	...	...	...	...	...	...	...	...	...	...
PROJECTS, 1960, BY TYPE OF ORGANIZATION											
12 Drains owned by one landowner.....number of projects...	2	1	1	...	...	...	...	...	...	...	...
13 acres served ² ...	1,300	600	700	...	...	...	...	...	...	...	...
14 Cooperative or mutual drains.....number of projects...	13	...	1	...	3	1	...	1	3	2	5
15 acres served ² ...	20,071	...	4,437	...	1,375	1,000	...	7,257	2,395	1,257	2,350
16 Legally organized public drains.....number of projects...	4	...	...	1	...	1	1	1	...	...	...
17 acres served ² ...	28,245	...	...	8,500	...	670	18,200	875	...	...	...
PROJECTS, 1960, BY YEAR STARTED											
18 1950-1959.....number of projects...	6	1	1	...	2	...	...	...	2	...	1
19 acres served ² ...	4,451	600	700	...	1,200	...	...	...	1,451	...	500
20 Prior to 1950.....number of projects...	13	...	1	1	1	2	1	2	1	2	4
21 acres served ² ...	45,165	...	4,437	8,500	175	1,670	18,200	8,132	944	1,257	1,850
DRAINAGE OPERATIONS, 1950-1959 ³											
22 Cost of drainage works and services.....projects reporting...	13	(⁴)	(⁴)	1	2	(⁴)	1	(⁴)	2	(⁴)	2
23 dollars...	202,013	(⁴)	(⁴)	14,400	7,921	(⁴)	36,000	(⁴)	21,280	(⁴)	10,765
24 New drainage works constructed, enlarged, or installed.....projects reporting...	7	(⁴)	(⁴)	...	2	(⁴)	...	...	1	(⁴)	(⁴)
25 dollars...	86,009	(⁴)	(⁴)	...	7,921	(⁴)	...	...	6,503	(⁴)	(⁴)
26 Open ditches.....projects reporting...	7	(⁴)	(⁴)	...	2	(⁴)	...	...	1	(⁴)	(⁴)
27 length, miles...	25.5	(⁴)	(⁴)	...	3.2	(⁴)	...	...	3.2	(⁴)	(⁴)
28 Tile or covered drains.....projects reporting...	2	...	(⁴)	...	...	...	...	...	...	(⁴)	...
29 length, miles...	19.8	...	(⁴)	...	...	...	...	...	...	(⁴)	...
30 Levees or dikes.....projects reporting...	1	...	...	...	...	...	...	...	1	...	(⁴)
31 length, miles...	5.5	...	...	...	...	...	...	...	3.2	...	(⁴)
32 Pumps.....projects reporting...	1	...	...	...	...	...	...	...	...	...	(⁴)
33 number of pumps...	2	...	...	...	...	...	...	...	...	...	(⁴)
34 Other (see text).....projects reporting...	1	...	1	...	...	...	...	...	...	...	...
35 Cost of maintenance, operation, repair, and administration.....projects reporting...	9	...	1	1	...	1	1	1	2	2	2
36 dollars...	116,004	...	5,122	14,400	...	10,000	36,000	9,335	14,777	19,425	6,945

¹Land served by two or more projects counted only once.²Acres served by two projects are included for each project. See text.³Includes projects taken over by another project prior to 1960. See text.⁴Included in State total only.

State Table 1.—DRAINAGE PROJECTS—NUMBER, AREA, COST, AND WORKS, 1920 TO 1960

[See text for comparability of data.]

Item	1960 Census	1950 Census	1940 Census	1930 Census	1920 Census
AREA					
Approximate land area.....acres...	31,402,880	31,422,080	31,450,880	31,193,600	31,193,600
Land in farms.....acres...	15,887,724	19,317,937	18,845,338	18,055,103	20,021,736
Drainage projects.....number...	564	413	246	NA	NA
Total area in drainage projects.....acres served...	1,418,892	1,128,509	825,576	679,236	542,828
Area not used for agriculture or not drained.....acres served...	98,389	NA	NA	NA	NA
Not area drained and used for agriculture.....acres served...	1,320,503	NA	¹ 673,034	¹ 311,121	NA
Drainage established 10 years or more before Census date.....acres served...	1,066,021	NA	NA	NA	NA
Drainage established within 10 years of Census date.....acres served...	254,482	NA	NA	NA	NA
Area served by two or more projects.....acres served...	95,071	63,304	74,272	9,200	9,600
PROJECTS BY TYPE OF ORGANIZATION					
Drains owned by one landowner.....number of projects...	39	4	NA	NA	NA
.....acres served...	65,426	16,342	58,700	17,370	59,851
Cooperative or mutual drains.....number of projects...	403	287	...	...	...
.....acres served...	485,339	332,356	...	...	...
Legally organized public drains.....number of projects...	122	122	NA	NA	NA
.....acres served...	866,267	779,811	766,876	661,866	482,977
PROJECTS BY YEAR STARTED					
Started 10 years or more before Census date.....number of projects...	378	223	NA	NA	NA
.....acres served...	1,094,600	846,830	704,211	507,157	55,710
Started within 10 years of Census date.....number of projects...	186	190	NA	NA	NA
.....acres served...	322,432	281,679	121,365	172,079	487,118
OPERATIONS, 10-YEAR PERIOD PRECEDING CENSUS DATE					
Cost of drainage works and services.....projects reporting...	310	250	NA	NA	NA
.....dollars...	2,959,290	1,438,698	NA	NA	NA
New drainage works constructed, enlarged, or installed.....projects reporting...	219	² 158	NA	NA	NA
.....cost, dollars...	2,187,155	² 737,994	NA	NA	NA
Open ditches.....projects reporting...	217	158	NA	NA	NA
.....length, miles...	959.0	403	NA	NA	NA
Tile or covered drains.....projects reporting...	1	...	NA	NA	NA
.....length, miles...	4.1	...	NA	NA	NA
Levees or dikes.....projects reporting...	3	1	NA	NA	NA
.....length, miles...	20.7	1	NA	NA	NA
Pumps.....projects reporting...	3	NA	NA	NA	NA
.....number of pumps...	7	NA	NA	NA	NA
Other (see text).....projects reporting...	5	NA	NA	NA	NA
Cost of maintenance, operation, repair, and administration.....projects reporting...	130	NA	NA	NA	NA
.....dollars...	772,135	700,704	NA	NA	NA
STATUS ON CENSUS DATE					
Capital investment.....dollars...	NA	NA	5,467,906	4,719,079	3,623,518
Physical works:					
Open ditches.....length, miles...	NA	NA	1,846.6	1,483.5	1,171.3
Tile drains.....length, miles...	NA	NA	...	...	...
Levees and dikes.....length, miles...	NA	NA	4.0	22.0	33.5
Pumping units.....number of units...	NA	...	...	4	NA

NA Not available.

¹Not fully comparable. See text.²Cost of new works for lands not previously drained.

DRAINAGE OF AGRICULTURAL LANDS

State Table 2.--DRAINAGE

	Size of project (Based on area of agricultural land in project)	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
			Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
					Projects reporting	Acres	Projects reporting	Acres
1	All projects.....	564	1,417,032	191,600	434	1,162,550	153	254,482
2	500 to 999 acres.....	304	202,778	40,607	229	151,664	79	51,114
3	1,000 to 1,999 acres.....	134	179,749	21,724	102	136,660	37	43,089
4	2,000 to 4,999 acres.....	72	188,866	34,224	59	153,469	20	35,397
5	5,000 to 9,999 acres.....	28	190,996	22,316	21	127,430	11	63,566
6	10,000 to 19,999 acres.....	12	161,601	12,345	9	100,285	6	61,316
7	20,000 to 49,999 acres.....	11	303,597	39,486	11	303,597	...	...
8	50,000 to 99,999 acres.....	3	189,445	20,898	3	189,445	...	...
9	100,000 or more acres.....	...	...	...	...	...	...	...

State Table 3.--DRAINAGE PROJECTS, 1960,

	Type of organization	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
			Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
					Projects reporting	Acres	Projects reporting	Acres
1	All projects.....	564	1,417,032	191,600	434	1,162,550	153	254,482
2	Drains owned by one landowner.....	39	65,426	12,975	22	29,514	22	35,912
3	Cooperative or mutual drains.....	403	485,339	78,714	305	348,840	112	136,499
4	Legally organized public drains.....	122	866,267	99,911	107	784,196	19	82,071

State Table 4.--DRAINAGE PROJECTS, 1960,

	Year of organization	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
			Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
					Projects reporting	Acres	Projects reporting	Acres
1	All projects.....	564	1,417,032	191,600	434	1,162,550	153	254,482
2	1950-1959.....	186	322,432	52,182	56	77,135	141	245,297
3	Prior to 1950.....	378	1,094,600	139,418	378	1,085,415	12	9,185

PROJECTS, 1960, BY SIZE

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959								
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	
310	2,959,290	219	2,187,155	217	959.0	1	4.1	3	20.7	3	7	5
166	569,577	120	470,203	119	277.9	1	4.1	...	...	1	2	2
72	446,510	50	339,261	50	191.3	...	...	1	2.6	1	2	3
41	404,972	29	279,687	29	131.9	...	...	...	...	...	...	4
17	718,005	14	565,918	14	223.8	...	...	...	...	...	...	5
7	519,086	5	484,086	4	131.1	...	...	2	18.1	1	3	6
4	281,041	1	48,000	1	3.0	...	...	...	...	...	...	7
3	20,099	...	...	...	...	...	...	...	...	...	...	8
...	...	...	...	...	...	...	...	...	...	...	...	9

BY TYPE OF ORGANIZATION

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959								
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	
310	2,959,290	219	2,187,155	217	959.0	1	4.1	3	20.7	3	7	5
33	429,975	31	401,511	31	378.2	1	4.1	1	7.0	1	2	...
227	1,244,569	162	967,376	160	407.2	...	...	1	2.6	1	2	4
50	1,284,746	26	818,268	26	173.6	...	...	1	11.1	1	3	1

BY YEAR OF ORGANIZATION

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959								
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	
310	2,959,290	219	2,187,155	217	959.0	1	4.1	3	20.7	3	7	5
186	2,059,989	178	1,913,964	178	832.5	1	4.1	3	20.7	3	7	3
124	899,301	41	273,191	39	126.5	...	...	...	...	...	...	2

DRAINAGE OF AGRICULTURAL LANDS

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

Item and Census year		The State	Alexander	Beaufort	Bertie	Bladen	Brunswick	Burke	Cabarrus	Caldwell
AREA										
1	Approximate land area.....acres 1960...	31,402,880	163,200	531,840	443,520	562,560	558,720	323,840	230,400	304,640
2	Land in farms.....acres 1950...	15,887,724	101,237	245,766	227,569	246,423	115,384	87,462	144,822	94,337
3	Drainage projects.....number 1960...	564	4	66	8	6	6	2	5	1
4	1960...	413	4	49	...	4	3	2	5	1
5	Total area in drainage projects ¹.....acres served 1960...	1,418,892	3,200	107,389	5,350	14,053	5,320	575	4,192	1,250
6	1950...	1,128,509	3,200	115,136	...	13,036	2,000	575	4,192	1,250
7	Area not used for agriculture or not drained.....acres served 1960...	98,389	...	16,140	...	700	...	...	...	...
8	Net area drained and used for agriculture.....acres served 1960...	1,320,503	3,200	91,249	5,350	13,353	5,320	575	4,192	1,250
9	Drainage established before 1950.....acres served 1960...	1,066,021	3,200	85,484	...	11,453	2,000	575	4,192	1,250
10	Area added, 1950-1959.....acres served 1960...	254,482	...	5,765	5,350	1,900	3,320	...	...	...
11	Area served by two or more projects.....acres served 1960...	95,071	...	20,948	...	...	...	...	...	...
PROJECTS, 1960, BY TYPE OF ORGANIZATION										
12	Drains owned by one landowner.....number of projects...	39	...	1	4	1	...	...	...	...
13	acres served ² ...	65,426	...	510	2,600	800	...	...	...	...
14	Cooperative or mutual drains.....number of projects...	403	...	59	4	2	6	...	...	...
15	acres served ² ...	485,339	...	66,027	2,750	2,780	5,320	...	...	...
16	Legally organized public drains.....number of projects...	122	4	6	...	3	...	2	5	1
17	acres served ² ...	866,267	3,200	45,878	...	9,773	...	575	4,192	1,250
PROJECTS, 1960, BY YEAR STARTED										
18	1950-1959.....number of projects...	186	...	13	8	2	3	...	...	...
19	acres served ² ...	322,432	...	11,973	5,350	1,900	3,320	...	...	...
20	Prior to 1950.....number of projects...	378	4	53	...	4	3	2	5	1
21	acres served ² ...	1,094,600	3,200	100,442	...	11,453	2,000	575	4,192	1,250
DRAINAGE OPERATIONS, 1950-1959 ³										
22	Cost of drainage works and services.....projects reporting...	310	...	38	8	4	3	...	...	...
23	dollars...	2,959,290	...	166,840	29,500	86,185	15,727	...	...	...
24	New drainage works constructed, enlarged, or installed.....projects reporting...	219	...	20	8	4	3	...	...	...
25	dollars...	2,187,155	...	80,628	29,500	42,185	14,227	...	...	...
26	Open ditches.....projects reporting...	217	...	20	8	4	3	...	...	...
27	length, miles...	959.0	...	34.9	13.2	31.0	6.7	...	...	...
28	Tile or covered drains.....projects reporting...	1	...	...	...	...	...	...	...	...
29	length, miles...	4.1	...	...	...	...	...	...	...	...
30	Levees or dikes.....projects reporting...	3	...	...	...	...	...	...	...	...
31	length, miles...	20.7	...	...	...	...	...	...	...	...
32	Pumps.....projects reporting...	3	...	...	...	...	...	...	...	...
33	number of pumps...	7	...	...	...	...	...	...	...	...
34	Other (see text).....projects reporting...	5	...	...	...	...	...	...	...	...
35	Cost of maintenance, operation, repair, and administration.....projects reporting...	130	...	20	...	2	2	...	...	...
36	dollars...	772,135	...	86,212	...	44,000	1,500	...	...	...

¹Land served by two or more projects counted only once.²Acres served by two projects are included for each project. See text.³Includes projects taken over by another project prior to 1960. See text.

County Table 1. —DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

Item and Census year		Canden	Carteret	Catawba	Chowan	Cleveland	Columbus	Creven	Cumberland	Currituck
AREA										
1	Approximate land area.....acres 1960...	152,960	340,480	259,840	115,200	298,240	600,960	464,000	423,040	174,720
2	Land in farms.....acres 1959...	51,712	47,008	144,630	67,945	206,087	304,035	142,559	196,617	66,542
3	Drainage projects..... number 1960...	21	9	4	9	1	14	17	13	13
4	..... 1950...	18	4	4	2	1	6	15	8	10
5	Total area in drainage projects ¹ acres served 1960...	42,730	28,310	3,792	19,431	14,502	52,977	35,517	45,420	26,875
6	..... 1950...	41,710	4,650	3,792	5,650	14,502	40,157	21,613	36,105	15,709
7	Area not used for agriculture or not drained..... acres served 1960...	14,980	6,000	...	1,000	...	...	9,856	...	9,704
8	Net area drained and used for agriculture..... acres served 1960...	27,750	22,310	3,792	18,431	14,502	52,977	25,661	45,420	17,171
9	Drainage established before 1950..... acres served 1960...	26,730	6,150	3,792	5,650	14,502	40,157	25,661	37,005	17,171
10	Area added, 1950-1959..... acres served 1960...	1,020	16,160	...	12,781	...	12,820	...	8,415	...
11	Area served by two or more projects..... acres served 1960...	7,395	1,950	...	...	...	...	700	1,300	900
PROJECTS, 1960, BY TYPE OF ORGANIZATION										
12	Drains owned by one landowner..... number of projects...	1	2	...	...	...	2	...	...	2
13	..... acres served ² ...	500	5,510	...	...	...	3,100	...	...	1,285
14	Cooperative or mutual drains..... number of projects...	18	7	...	2	...	10	12	10	9
15	..... acres served ² ...	31,545	18,750	...	1,840	...	13,453	10,815	16,205	9,422
16	Legally organized public drains..... number of projects...	2	...	4	7	1	2	5	3	2
17	..... acres served ² ...	3,100	...	3,792	16,591	14,502	36,424	15,546	30,515	7,364
PROJECTS, 1960, BY YEAR STARTED										
18	1950-1959..... number of projects...	3	3	...	7	...	8	...	4	2
19	..... acres served ³ ...	2,070	17,510	...	12,781	...	12,820	...	9,150	1,285
20	Prior to 1950..... number of projects...	18	6	4	2	1	6	17	9	11
21	..... acres served ³ ...	33,075	6,750	3,792	5,650	14,502	40,157	26,361	37,570	16,786
DRAINAGE OPERATIONS, 1950-1959 ³										
22	Cost of drainage works and services.....projects reporting...	7	8	...	8	...	8	10	11	8
23	..... dollars...	37,886	111,091	...	46,857	...	66,650	41,357	75,850	16,946
24	New drainage works constructed, enlarged, or installed.....projects reporting...	4	7	...	5	...	8	4	9	3
25	..... dollars...	29,086	87,517	...	26,108	...	66,650	25,370	63,850	4,300
26	Open ditches.....projects reporting...	4	7	...	5	...	8	4	9	3
27	..... length, miles...	10.1	80.3	...	8.8	...	26.0	14.8	21.5	5.6
28	Tile or covered drains.....projects reporting...	...	...	...	...	...	...	...	...	...
29	..... length, miles...	...	...	...	...	...	...	...	...	...
30	Levees or dikes.....projects reporting...	...	...	...	...	...	...	...	...	...
31	..... length, miles...	...	...	...	...	...	...	...	...	...
32	Pumps.....projects reporting...	...	...	...	...	...	...	...	...	...
33	..... number of pumps...	...	...	...	...	...	...	...	...	...
34	Other (see text).....projects reporting...	...	...	...	...	...	...	...	...	...
35	Cost of maintenance, operation, repair, and administration.....projects reporting...	4	4	...	3	...	...	8	6	7
36	..... dollars...	8,800	23,574	...	20,749	...	...	15,967	12,000	12,646

¹Land served by two or more projects counted only once.²Acres served by two projects are included for each project. See text.³Includes projects taken over by another project prior to 1960. See text.

DRAINAGE OF AGRICULTURAL LANDS

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

Item and Census year		Davidson	Duplin	Edgecombe	Forreth	Gaston	Gates	Greene	Harnett	Hertford
AREA										
1	Approximate land area.....acres 1960...	349,440	526,080	327,040	271,360	229,120	219,520	172,160	387,840	227,840
2	Land in farms.....acres 1950...	191,376	324,829	261,636	130,077	102,984	98,401	122,323	235,178	113,803
3	Drainage projects.....number 1960...	1	12	14	2	4	8	16	1	4
4	.....1950...	1	9	11	2	4	4	6	1	...
5	Total area in drainage projects ¹.....acres served 1960...	480	21,052	60,294	3,650	3,873	11,865	20,045	6,286	2,650
6	.....1950...	480	18,872	58,234	3,650	3,873	4,960	11,437	6,286	...
7	Area not used for agriculture or not drained.....acres served 1960...	...	...	3,500	...	...	2,500	...	...	...
8	Not area drained and used for agriculture.....acres served 1960...	480	21,052	56,794	3,650	3,873	9,365	20,045	6,286	2,650
9	Drainage established before 1950.....acres served 1960...	480	18,872	54,594	3,650	3,873	5,810	11,437	6,286	...
10	Area added, 1950-1959.....acres served 1960...	...	2,180	2,200	...	...	3,555	8,608	...	2,650
11	Area served by two or more projects.....acres served 1960...	...	...	141	...	...	...	...	...	...
PROJECTS, 1960, BY TYPE OF ORGANIZATION										
12	Drains owned by one landowner.....number of projects...	...	...	...	...	...	...	...	...	4
13	.....acres served ²...	...	...	...	...	...	...	...	...	2,650
14	Cooperative or mutual drains.....number of projects...	...	11	10	...	...	7	9	...	...
15	.....acres served ²...	...	9,110	15,535	...	...	6,035	7,518	...	...
16	Legally organized public drains.....number of projects...	1	1	4	2	4	1	7	1	...
17	.....acres served ² ...	480	11,942	41,400	3,650	3,873	3,330	12,527	6,286	...
PROJECTS, 1960, BY YEAR STARTED										
18	1950-1959.....number of projects...	...	3	4	...	...	3	10	...	4
19	.....acres served ²...	...	2,180	5,200	...	...	3,385	8,608	...	2,650
20	Prior to 1950.....number of projects...	1	9	10	2	4	5	6	1	...
21	.....acres served ² ...	480	18,872	51,735	3,650	3,873	5,980	11,437	6,286	...
DRAINAGE OPERATIONS, 1950-1959 ³										
22	Cost of drainage works and services.....projects reporting...	...	4	6	...	...	5	10	...	4
23	.....dollars...	...	12,100	35,097	...	...	25,476	42,424	...	4,000
24	New drainage works constructed, enlarged, or installed.....projects reporting...	...	3	3	...	...	4	10	...	4
25	.....dollars...	...	11,600	3,810	...	...	10,708	42,424	...	4,000
26	Open ditches.....projects reporting...	...	3	3	...	...	4	10	...	4
27	.....length, miles...	...	3.9	1.6	...	...	7.2	19.1	...	2.5
28	Tile or covered drains.....projects reporting...	...	...	...	...	...	...	...	...	...
29	.....length, miles...	...	...	...	...	...	...	...	...	...
30	Levees or dikes.....projects reporting...	...	...	...	...	...	...	...	...	...
31	.....length, miles...	...	...	...	...	...	...	...	...	...
32	Pumps.....projects reporting...	...	...	...	...	...	...	...	...	...
33	.....number of pumps...	...	...	...	...	...	...	...	...	...
34	Other (see text).....projects reporting...	...	...	...	...	...	...	...	...	...
35	Cost of maintenance, operation, repair, and administration.....projects reporting...	...	1	3	...	...	2	...	...	...
36	.....dollars...	...	500	31,247	...	...	14,768	...	...	...

¹Land served by two or more projects counted only once.²Acres served by two projects are included for each project. See text.³Includes projects taken over by another project prior to 1960. See text.

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data.]

Item and Census year		Hoke	Hyde	Iredell	Johnston	Jones	Lenoir	Lincoln	McDowell	Martin
AREA										
1	Approximate land area.....acres 1960...	243,840	405,760	378,240	508,800	298,880	250,240	197,120	282,880	307,840
2	Land in farms.....acres 1959...	110,403	79,530	250,786	388,977	105,114	202,180	126,667	65,030	190,287
3	Drainage projects..... number 1960...	1	20	13	1	3	17	3	1	8
4	..... 1950...	1	17	12	...	2	7	3	1	2
5	Total area in drainage projects ¹ acres served 1960...	900	50,220	35,771	1,678	13,845	29,304	6,678	985	43,885
6	..... 1950...	900	32,454	34,397	...	1,100	14,039	6,678	985	1,000
7	Area not used for agriculture or not drained..... acres served 1960...	...	...	...	...	...	...	...	...	1,500
8	Net area drained and used for agriculture..... acres served 1960...	900	50,220	35,771	1,678	13,845	29,304	6,678	985	42,385
9	Drainage established before 1960..... acres served 1960...	900	37,095	35,771	...	...	14,039	6,678	985	1,000
10	Area added, 1950-1959..... acres served 1960...	...	13,125	...	1,678	13,845	15,265	...	...	41,385
11	Area served by two or more projects..... acres served 1960...	...	5,180	...	...	...	...	...	...	700
PROJECTS, 1960, BY TYPE OF ORGANIZATION										
12	Drains owned by one landowner..... number of projects...	...	1	...	...	...	...	...	...	1
13	..... acres served ²...	...	7,000	...	...	...	...	...	...	1,700
14	Cooperative or mutual drains..... number of projects...	1	15	...	1	2	13	...	...	2
15	..... acres served ² ...	900	21,078	...	1,678	9,070	20,540	...	...	3,700
16	Legally organized public drains..... number of projects...	...	4	13	...	1	4	3	1	5
17	..... acres served ²...	...	28,162	35,771	...	4,775	8,764	6,678	985	37,685
PROJECTS, 1960, BY YEAR STARTED										
18	1950-1959..... number of projects...	...	7	...	1	3	10	...	...	6
19	..... acres served ³...	...	23,272	...	1,678	13,845	15,265	...	...	41,385
20	Prior to 1950..... number of projects...	1	13	13	...	...	7	3	1	2
21	..... acres served ³ ...	900	32,968	35,771	...	...	14,039	6,678	985	1,700
DRAINAGE OPERATIONS, 1950-1959 ⁴										
22	Cost of drainage works and services.....projects reporting...	(⁴)	17	...	(⁴)	3	13	...	...	6
23	..... dollars...	(⁴)	374,508	...	(⁴)	129,266	80,449	...	...	267,407
24	New drainage works constructed, enlarged, or installed.....projects reporting...	...	8	...	(⁴)	3	11	...	...	6
25	..... dollars...	...	317,279	...	(⁴)	129,266	76,604	...	...	267,407
26	Open ditches.....projects reporting...	...	6	...	(⁴)	3	11	...	...	6
27	..... length, miles...	...	48.4	...	(⁴)	12.6	26.8	...	...	49.7
28	Tile or covered drains.....projects reporting...	...	...	...	...	...	...	...	...	...
29	..... length, miles...	...	...	...	...	...	...	...	...	...
30	Levees or dikes.....projects reporting...	...	2	...	...	...	...	...	...	...
31	..... length, miles...	...	13.7	...	...	...	...	...	...	...
32	Pumps.....projects reporting...	...	2	...	...	...	...	...	...	...
33	..... number of pumps...	...	5	...	...	...	...	...	...	...
34	Other (see text).....projects reporting...	...	5	...	...	...	...	...	...	...
35	Cost of maintenance, operation, repair, and administration.....projects reporting...	(⁴)	14	...	...	...	3	...	...	...
36	..... dollars...	(⁴)	57,229	...	...	...	3,845	...	...	...

¹Land served by two or more projects counted only once.²Acres served by two projects are included for each project. See text.³Includes projects taken over by another project prior to 1960. See text.⁴Included in State total only.

DRAINAGE OF AGRICULTURAL LANDS

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data.]

Item and Census year		Mecklenburg	New Hanover	Perlicco	Pasquotank	Pender	Perquimans	Pitt	Robeson
AREA									
1	Approximate land area.....acres 1960...	346,880	124,160	218,240	146,560	548,480	167,040	419,840	604,160
2	Land in farms.....acres 1959...	141,165	17,912	61,781	71,196	138,542	87,611	304,500	387,700
3	Drainage projects.....number 1960...	1	10	15	24	8	16	75	67
4	.....1950...	22	...	8	23	6	14	49	51
5	Total area in drainage projects ¹.....acres served 1960...	41,374	7,900	18,958	22,602	27,299	35,002	217,102	108,197
6	.....1950...	37,649	...	11,481	20,373	25,779	30,385	200,731	95,620
7	Area not used for agriculture or not drained.....acres served 1960...	8,867	...	...	...	...	1,000	...	...
8	Net area drained and used for agriculture.....acres served 1960...	32,507	7,900	18,958	22,602	27,299	34,002	217,102	108,197
9	Drainage established before 1950.....acres served 1960...	32,507	...	12,014	21,913	25,779	24,020	200,731	92,430
10	Area added, 1950-1959.....acres served 1960...	...	7,900	6,944	689	1,520	9,982	16,371	15,767
11	Area served by two or more projects.....acres served 1960...	...	...	...	5,856	...	...	32,366	500
PROJECTS, 1960, BY TYPE OF ORGANIZATION									
12	Drains owned by one landowner.....number of projects...	...	...	1	2	1	1	6	...
13	.....acres served ²...	...	...	1,400	3,900	520	900	4,210	...
14	Cooperative or mutual drains.....number of projects...	...	10	11	18	1	12	48	62
15	.....acres served ²...	...	7,900	13,101	15,092	900	15,902	42,083	65,129
16	Legally organized public drains.....number of projects...	1	...	3	4	6	3	21	5
17	.....acres served ² ...	32,507	...	4,457	9,466	25,879	17,200	203,575	43,568
PROJECTS, 1960, BY YEAR STARTED									
18	1950-1959.....number of projects...	...	10	6	3	2	6	26	16
19	.....acres served ²...	...	7,900	6,944	2,731	1,420	11,642	35,617	15,305
20	Prior to 1950.....number of projects...	1	...	9	21	6	10	49	51
21	.....acres served ² ...	32,507	...	12,014	25,727	25,879	22,360	214,251	93,392
DRAINAGE OPERATIONS, 1950-1959 ³									
22	Cost of drainage works and services.....projects reporting...	1	10	8	9	4	7	38	21
23	.....dollars...	227,275	77,800	48,057	13,180	32,700	33,630	241,354	100,510
24	New drainage works constructed, enlarged, or installed.....projects reporting...	1	10	6	5	3	6	30	17
25	.....dollars...	48,000	77,800	46,597	9,863	14,900	32,130	205,482	99,560
26	Open ditches.....projects reporting...	1	10	6	5	3	6	30	17
27	.....length, miles...	3.0	48.2	19.4	8.4	13.8	14.8	80.0	53.0
28	Tile or covered drains.....projects reporting...	...	...	...	...	...	...	...	...
29	.....length, miles...	...	...	...	...	...	...	...	...
30	Levees or dikes.....projects reporting...	...	...	...	...	...	...	...	...
31	.....length, miles...	...	...	...	...	...	...	...	...
32	Pumps.....projects reporting...	...	...	...	...	...	...	...	...
33	.....number of pumps...	...	...	...	...	...	...	...	...
34	Other (see text).....projects reporting...	...	...	...	...	...	...	...	...
35	Cost of maintenance, operation, repair, and administration.....projects reporting...	1	...	2	4	1	1	10	4
36	.....dollars...	179,275	...	1,500	3,317	18,200	1,500	35,872	950

¹Land served by two or more projects counted only once.²Acres served by two projects are included for each project. See text.³Includes projects taken over by another project prior to 1960. See text.

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

	Item and Census year	Rowan	Sampson	Scotland	Tyrrell	Washington	Wayne	Wilson
	AREA							
1	Approximate land area.....acres 1960...	330,880	616,320	202,880	255,360	215,040	355,200	238,720
2	Land in farms.....acres 1959...	188,436	379,782	90,200	37,641	107,938	258,955	190,678
3	Drainage projects.....number 1960...	6	1	2	13	35	4	3
4	.....1950...	7	1	2	16	19	2	3
5	Total area in drainage projects ¹.....acres served 1960...	76,838	14,436	1,850	25,522	87,523	6,281	3,664
6	.....1950...	79,629	14,436	1,850	17,842	61,228	5,220	3,664
7	Area not used for agriculture or not drained.....acres served 1960...	...	...	...	5,000	17,642	...	...
8	Net area drained and used for agriculture.....acres served 1960...	76,838	14,436	1,850	20,522	69,881	6,281	3,664
9	Drainage established before 1950.....acres served 1960...	76,838	14,436	1,850	12,022	56,155	5,220	3,664
10	Area added, 1950-1959.....acres served 1960...	...	...	...	8,500	13,726	1,061	...
11	Area served by two or more projects.....acres served 1960...	640	...	...	...	16,495	...	...
	PROJECTS, 1960, BY TYPE OF ORGANIZATION							
12	Drains owned by one landowner.....number of projects...	...	...	...	...	9	...	...
13	.....acres served ²...	...	...	...	...	28,841	...	...
14	Cooperative or mutual drains.....number of projects...	...	...	2	10	22	2	2
15	.....acres served ²...	...	...	1,850	16,880	29,506	1,061	1,864
16	Legally organized public drains.....number of projects...	6	1	...	3	4	2	1
17	.....acres served ² ...	77,478	14,436	...	3,642	28,029	5,220	1,800
	PROJECTS, 1960, BY YEAR STARTED							
18	1950-1959.....number of projects...	...	...	...	4	15	2	...
19	.....acres served ²...	...	...	...	4,500	39,685	1,061	...
20	Prior to 1950.....number of projects...	6	1	2	9	20	2	3
21	.....acres served ² ...	77,478	14,436	1,850	16,022	46,691	5,220	3,664
	DRAINAGE OPERATIONS, 1950-1959 ³							
22	Cost of drainage works and services.....projects reporting...	1	...	2	8	26	3	1
23	.....dollars...	600	...	1,100	156,084	342,600	9,055	1,000
24	New drainage works constructed, enlarged, or installed.....projects reporting...	...	...	...	5	12	2	...
25	.....dollars...	...	...	...	77,670	227,250	7,555	...
26	Open ditches.....projects reporting...	...	...	...	5	12	2	...
27	.....length, miles...	...	...	...	29.1	259.0	3.8	...
28	Tile or covered drains.....projects reporting...	...	...	...	...	1	...	...
29	.....length, miles...	...	...	...	...	4.1	...	...
30	Levees or dikes.....projects reporting...	...	...	...	...	1	...	...
31	.....length, miles...	...	...	...	...	7.0	...	...
32	Pumps.....projects reporting...	...	...	...	...	1	...	...
33	.....number of pumps...	...	...	...	...	2	...	...
34	Other (see text).....projects reporting...	...	...	...	...	...	...	...
35	Cost of maintenance, operation, repair, and administration.....projects reporting...	1	...	2	5	19	1	1
36	.....dollars...	600	...	1,100	78,414	115,350	1,500	1,000

¹Land served by two or more projects counted only once.²Acres served by two projects are included for each project. See text.³Includes projects taken over by another project prior to 1960. See text.

State Table 2.—DRAINAGE

Size of project (Based on area of agricultural land in project)	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
		Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
				Projects reporting	Acres	Projects reporting	Acres
1 All projects.....	161	1,732,183	178,840	144	1,608,023	29	124,160
2 500 to 999 acres.....	78	52,640	22,690	67	45,090	11	7,550
3 1,000 to 1,999 acres.....	45	62,610	23,680	43	57,170	4	5,440
4 2,000 to 4,999 acres.....	19	56,660	31,670	16	46,940	4	9,720
5 5,000 to 9,999 acres.....	9	63,648	14,400	8	47,428	3	16,220
6 10,000 to 19,999 acres.....	1	18,176	...	1	18,176	...	...
7 20,000 to 49,999 acres.....	2	87,228	2,800	2	69,820	1	17,408
8 50,000 to 99,999 acres.....	1	59,309	1,440	1	59,069	1	240
9 100,000 or more acres.....	6	1,331,912	82,160	6	1,264,330	5	67,582

State Table 3.—DRAINAGE PROJECTS, 1960,

Type of organization	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
		Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
				Projects reporting	Acres	Projects reporting	Acres
1 All projects.....	161	1,732,183	178,840	144	1,608,023	29	124,160
2 Drains owned by one landowner.....	...	...	...	...	...	...	...
3 Cooperative or mutual drains.....	144	200,630	89,680	128	169,880	18	30,750
4 Legally organized public drains.....	17	1,531,553	89,160	16	1,438,143	11	93,410

State Table 4.—DRAINAGE PROJECTS, 1960,

Year of organization	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
		Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
				Projects reporting	Acres	Projects reporting	Acres
1 All projects.....	161	1,732,183	178,840	144	1,608,023	29	124,160
2 1950-1959.....	27	55,550	13,960	10	19,080	21	36,470
3 Prior to 1950.....	134	1,676,633	164,880	134	1,388,943	8	87,690

PROJECTS, 1960, BY SIZE

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959									
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting	
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number		
41	1,672,790	37	649,652	35	168.5	...	...	1	3.5	...	...	2
15	40,845	15	40,645	15	30.2	...	...	...	...	...	...	2
6	21,944	4	18,244	4	11.2	...	...	...	...	...	...	3
6	27,648	6	27,648	6	23.0	...	...	...	...	...	...	4
5	125,443	3	80,996	3	21.4	...	...	...	...	...	...	5
1	22,340	1	20,000	...	...	...	...	...	...	...	...	1
1	62,731	1	58,637	1	20.7	...	...	...	...	...	...	7
1	14,893	1	6,059	1	4.7	...	...	...	...	...	...	8
6	1,356,946	6	397,423	5	57.3	...	...	1	3.5	...	...	1

BY TYPE OF ORGANIZATION

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959									
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting	
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number		
41	1,672,790	37	649,652	35	168.5	...	...	1	3.5	...	...	2	1
...	...	...	...	...	...	...	...	...	...	...	...	...	2
26	113,219	24	109,319	24	68.7	...	...	...	...	...	...	...	3
15	1,559,571	13	540,333	11	99.8	...	...	1	3.5	...	...	2	4

BY YEAR OF ORGANIZATION

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959								
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	
41	1,672,790	37	649,652	35	168.5	...	...	1	3.5	...	...	2
27	158,137	27	157,937	27	82.3	...	...	...	...	...	...	...
14	1,514,653	10	491,715	8	86.2	...	...	1	3.5	...	...	2

DRAINAGE OF AGRICULTURAL LANDS

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data.]

Item and Census year	The State	Barnes	Benson	Bottineau	Cass	Cavalier	Grand Forks	LaMoure	McHenry
AREA									
1 Approximate land area.....acres 1960...	44,452,480	945,920	903,680	1,087,360	1,119,360	968,320	920,320	727,680	1,209,600
2 Land in farms.....acres 1959...	41,465,717	927,852	811,326	1,003,165	1,101,422	929,113	865,313	718,172	1,113,455
3 Drainage projects.....number 1960...	161	1	2	1	45	1	18	1	1
4 1950...	21	1	...	1	1	1	1	1	1
5 Total area in drainage projects ¹.....acres served 1960...	1,642,543	5,420	1,100	46,592	384,238	5,504	149,164	3,680	6,724
6 1950...	1,572,220	2,960	...	50,688	336,918	5,504	137,472	3,680	10,920
7 Area not used for agriculture or not drained.....acres served 1960...	1,360	...	...	...	1,360	...	...	...	...
8 Net area drained and used for agriculture.....acres served 1960...	1,641,183	5,420	1,100	46,592	382,878	5,504	149,164	3,680	6,724
9 Drainage established before 1950.....acres served 1960...	1,517,023	2,960	...	29,184	334,628	5,504	137,472	3,680	6,724
10 Area added, 1950-1959.....acres served 1960...	124,160	2,460	1,100	17,408	48,250	...	11,692	...	...
11 Area served by two or more projects.....acres served 1960...	87,840	...	...	...	45,520	...	12,360	...	...
PROJECTS, 1960, BY TYPE OF ORGANIZATION									
12 Drains owned by one landowner.....number of projects...	...	...	...	...	...	...	...	...	...
13 acres served ²...	...	...	...	...	...	...	...	...	...
14 Cooperative or mutual drains.....number of projects...	144	...	2	...	44	...	16	...	...
15 acres served ² ...	200,630	...	1,100	...	98,070	...	21,530	...	...
16 Legally organized public drains.....number of projects...	17	1	...	1	1	1	2	1	1
17 acres served ² ...	1,531,553	5,420	...	46,592	332,248	5,504	141,234	3,680	6,724
PROJECTS, 1960, BY YEAR STARTED									
18 1950-1959.....number of projects...	27	...	2	...	8	...	7	...	...
19 acres served ² ...	55,550	...	1,100	...	25,420	...	8,280	...	...
20 Prior to 1950.....number of projects...	134	1	...	1	37	1	11	1	1
21 acres served ² ...	1,676,633	5,420	...	46,592	404,898	5,504	154,484	3,680	6,724
DRAINAGE OPERATIONS, 1950-1959 ³									
22 Cost of drainage works and services.....projects reporting...	41	1	2	1	9	1	9	...	1
23 dollars...	1,672,790	9,596	1,814	62,731	376,437	12,764	159,678	...	31,683
24 New drainage works constructed, enlarged, or installed.....projects reporting...	37	1	2	1	9	...	8	...	...
25 dollars...	649,652	9,596	1,614	58,637	276,099	...	75,678	...	...
26 Open ditches.....projects reporting...	35	1	2	1	9	...	8	...	...
27 length, miles...	168.5	3.5	1.3	20.7	53.5	...	23.3	...	...
28 Tile or covered drains.....projects reporting...	...	...	...	...	...	...	...	...	...
29 length, miles...	...	...	...	...	...	...	...	...	...
30 Levees or dikes.....projects reporting...	1	...	...	...	...	...	...	...	...
31 length, miles...	3.5	...	...	...	...	...	...	...	...
32 Pumps.....projects reporting...	...	...	...	...	...	...	...	...	...
33 number of pumps...	...	...	...	...	...	...	...	...	...
34 Other (see text).....projects reporting...	2	...	...	...	...	...	...	...	...
35 Cost of maintenance, operation, repair, and administration.....projects reporting...	13	...	1	1	1	1	2	...	1
36 dollars...	1,023,138	...	200	4,094	100,338	12764	84,000	...	31,683

¹Land served by two or more projects counted only once.²Acres served by two projects are included for each project. See text.³Includes projects taken over by another project prior to 1960. See text.

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

Item and Census year	Pembina	Ramsey	Ransom	Richland	Sargent	Steele	Treill	Walsh	All other counties ¹
AREA									
1 Approximate land area.....acres 1960...	719,360	776,960	552,320	928,000	547,200	454,400	551,040	823,680	8,651,520
2 Land in farms.....acres 1959...	690,735	752,948	476,584	833,270	514,375	441,175	531,713	816,445	7,943,567
3 Drainage projects.....number 1960...	5	1	5	36	3	2	25	14	...
4 1950...	1	1	1	1	1	...	1	1	7
5 Total area in drainage projects ².....acres served 1960...	255,959	18,176	41,216	305,114	158,451	1,400	193,006	66,799	...
6 1950...	243,139	18,176	41,216	291,234	158,451	...	177,816	63,329	30,717
7 Area not used for agriculture or not drained.....acres served 1960...	...	...	...	...	...	...	...	...	...
8 Net area drained and used for agriculture.....acres served 1960...	255,959	18,176	41,216	305,114	158,451	1,400	193,006	66,799	...
9 Drainage established before 1950.....acres served 1960...	243,139	18,176	41,216	293,834	158,451	...	177,816	64,239	...
10 Area added, 1950-1959.....acres served 1960...	12,820	...	...	11,280	...	1,400	15,190	2,560	...
11 Area served by two or more projects.....acres served 1960...	1,000	...	2,800	14,560	640	...	9,360	1,600	...
PROJECTS, 1960, BY TYPE OF ORGANIZATION									
12 Drains owned by one landowner.....number of projects...	...	...	...	...	...	...	...	...	...
13 acres served ³...	...	...	...	...	...	...	...	...	...
14 Cooperative or mutual drains.....number of projects...	4	...	4	35	2	2	22	13	...
15 acres served ³ ...	4,640	...	3,380	39,190	1,240	1,400	20,990	9,090	...
16 Legally organized public drains.....number of projects...	1	1	1	1	1	...	3	1	...
17 acres served ³ ...	252,319	18,176	40,636	280,484	197,851	...	181,376	59,309	...
PROJECTS, 1960, BY YEAR STARTED									
18 1950-1959.....number of projects...	...	...	...	2	...	2	4	2	...
19 acres served ³...	...	...	...	5,120	...	1,400	11,910	2,320	...
20 Prior to 1950.....number of projects...	5	1	5	34	3	...	21	12	...
21 acres served ³ ...	256,959	18,176	44,016	314,554	159,091	...	190,456	66,079	...
DRAINAGE OPERATIONS, 1950-1959 ⁴									
22 Cost of drainage works and services.....projects reporting...	1	1	...	3	1	2	6	3	...
23 dollars...	488,272	22,340	...	195,265	2,998	5,999	281,501	21,712	...
24 New drainage works constructed, enlarged, or installed.....projects reporting...	1	1	...	3	1	2	5	3	...
25 dollars...	47,024	20,000	...	42,473	2,998	5,999	96,656	12,878	...
26 Open ditches.....projects reporting...	1	...	...	3	...	2	5	3	...
27 length, miles...	15.2	...	...	13.9	...	5.0	23.5	8.6	...
28 Tiled or covered drains.....projects reporting...	...	...	...	...	...	...	...	...	...
29 length, miles...	...	...	...	...	...	...	...	...	...
30 Levees or dikes.....projects reporting...	...	...	...	...	1	...	...	...	...
31 length, miles...	...	...	...	...	3.5	...	...	...	...
32 Pumps.....projects reporting...	...	...	...	...	...	...	...	...	...
33 number of pumps...	...	...	...	...	...	...	...	...	...
34 Other (see text).....projects reporting...	...	1	...	...	1	...	...	...	...
35 Cost of maintenance, operation, repair, and administration.....projects reporting...	1	1	...	1	...	...	2	1	...
36 dollars...	441,248	2,340	...	152,792	...	...	184,845	8,834	...

¹Includes Divide, Grant, McKenzie, Morton, Mountrail, Ward, and Williams counties.²Land served by two or more projects counted only once.³Acres served by two projects are included for each project. See text.⁴Includes projects taken over by another project prior to 1960. See text.

State Table 1.—DRAINAGE PROJECTS—NUMBER, AREA, COST, AND WORKS, 1920 TO 1960

[See text for comparability of data.]

Item	1960 Census	1950 Census	1940 Census	1930 Census	1920 Census
AREA					
Approximate land area..... acres...	26,222,080	26,240,000	26,318,080	26,073,600	26,073,600
Land in farms..... acres...	18,506,796	20,969,411	21,907,523	21,514,059	23,515,888
Drainage projects..... number...	142	63	111,530	NA	NA
Total area in drainage projects..... acres served...	8,904,907	8,923,362	7,729,267	8,165,494	8,107,204
Area not used for agriculture or not drained..... acres served...	95,492	NA	NA	NA	NA
Net area drained and used for agriculture..... acres served...	8,809,415	NA	7,737,937	8,132,973	NA
Drainage established 10 years or more before Census date..... acres served...	8,747,745	NA	NA	NA	NA
Drainage established within 10 years of Census date..... acres served...	61,670	NA	NA	NA	NA
Area served by two or more projects..... acres served...	64,162	NA	17,482,794	15,845,135	15,357,608
PROJECTS BY TYPE OF ORGANIZATION					
Drains owned by one landowner..... number of projects...	3	(3)	...	...	NA
..... acres served ¹ ...	2,424	(3)	...	...	47,736
Cooperative or mutual drains..... number of projects...	76	(3)	...	...	...
..... acres served ¹ ...	88,555	(3)	...	...	...
Legally organized public drains..... number of projects...	63	363	NA	NA	NA
..... acres served ¹ ...	8,782,878	8,923,362	7,729,267	8,165,494	48,097,553
PROJECTS BY YEAR STARTED					
Started 10 years or more before Census date..... number of projects...	79	NA	NA	NA	NA
..... acres served...	8,805,054	NA	6,404,904	7,784,986	37,161,648
Started within 10 years of Census date..... number of projects...	63	NA	NA	NA	NA
..... acres served...	68,803	NA	1,324,363	380,508	343,200
OPERATIONS, 10-YEAR PERIOD PRECEDING CENSUS DATE					
Cost of drainage works and services..... projects reporting...	113	54	NA	NA	NA
..... dollars...	8,268,377	6,189,421	NA	NA	NA
New drainage works constructed, enlarged, or installed..... projects reporting...	53	68	NA	NA	NA
..... cost, dollars...	267,635	6147,941	NA	NA	NA
Open ditches..... projects reporting...	47	8	NA	NA	NA
..... length, miles...	57.3	38	NA	NA	NA
Tile or covered drains..... projects reporting...	18	5	NA	NA	NA
..... length, miles...	68.7	7	NA	NA	NA
Levees or dikes..... projects reporting...	...	...	NA	NA	NA
..... length, miles...	...	...	NA	NA	NA
Pumps..... projects reporting...	...	NA	NA	NA	NA
..... number of pumps...	...	NA	NA	NA	NA
Other (see text)..... projects reporting...	6	NA	NA	NA	NA
Cost of maintenance, operation, repair, and administration..... projects reporting...	77	53	NA	NA	NA
..... dollars...	8,000,742	6,041,480	NA	NA	NA
STATUS ON CENSUS DATE					
Capital investment..... dollars...	NA	NA	35,215,586	36,836,449	30,680,145
Physical works:					
Open ditches..... length, miles...	NA	NA	18,732.2	25,048.2	24,984.0
Tile drains..... length, miles...	NA	NA	10,163.9	9,371.6	9,205.3
Levees and dikes..... length, miles...	NA	NA	5.2	0.3	9.6
Pumping units..... number of units...	NA	NA	...	1	NA

NA Not available.

¹In 1940, each county drain was counted as a separate project. See text.²Not fully comparable. See text.³All projects in 1950 included with county drains. See text.⁴1920 figures exclude 1,915 acres for which type of organization was not reported.⁵1920 figures exclude 2,356 acres for which date of organization was not reported.⁶Cost of new works for lands not previously drained.

DRAINAGE OF AGRICULTURAL LANDS

State Table 2.—DRAINAGE

	Size of project (Based on area of agricultural land in project)	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
			Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
					Projects reporting	Acres	Projects reporting	Acres
1	All projects.....	142	8,873,857	128,604	122	8,812,187	38	61,670
2	500 to 999 acres.....	46	31,479	19,244	32	21,537	18	9,942
3	1,000 to 1,999 acres.....	28	38,053	26,658	23	30,623	7	7,430
4	2,000 to 4,999 acres.....	13	42,520	18,540	12	39,520	2	3,000
5	5,000 to 9,999 acres.....	1	5,536	...	1	5,536	...	...
6	10,000 to 19,999 acres.....	8	118,498	...	8	117,818	1	680
7	20,000 to 49,999 acres.....	6	238,003	9,880	6	232,474	2	5,529
8	50,000 to 99,999 acres.....	7	532,618	10,171	7	519,504	2	13,114
9	100,000 or more acres.....	33	7,867,150	44,111	33	7,845,175	6	21,975

State Table 3.—DRAINAGE PROJECTS, 1960,

	Type of organization	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
			Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
					Projects reporting	Acres	Projects reporting	Acres
1	All projects.....	142	8,873,857	128,604	122	8,812,187	38	61,670
2	Drains owned by one landowner.....	3	2,424	1,924	3	2,424	...	...
3	Cooperative or mutual drains.....	76	88,555	62,518	56	68,183	27	20,372
4	Legally organized public drains.....	63	8,782,878	64,162	63	8,741,580	11	41,298

State Table 4.—DRAINAGE PROJECTS, 1960,

	Year of organization	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
			Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
					Projects reporting	Acres	Projects reporting	Acres
1	All projects.....	142	8,873,857	128,604	122	8,812,187	38	61,670
2	1950-1959.....	63	68,803	47,911	43	49,411	25	19,392
3	Prior to 1950.....	79	8,805,054	80,693	79	8,762,776	13	42,278

PROJECTS, 1960, BY SIZE

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959									
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting	
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number		
113	8,268,377	53	267,635	47	57.3	18	68.7	...	...	...	...	6	1
36	211,169	29	141,975	27	34.0	9	58.7	...	...	...	...	4	2
24	65,459	16	30,665	15	14.1	1	1.0	...	...	...	...	1	3
7	33,667	2	7,740	1	0.6	2	0.7	...	...	...	...	...	4
...	...	...	...	...	...	...	...	...	...	...	...	...	5
2	267,672	...	...	...	...	...	...	...	...	...	...	...	6
4	124,744	1	6,402	1	1.4	1	0.1	...	...	...	...	...	7
7	252,009	1	22,500	1	6.0	1	1.7	...	...	...	...	...	8
33	7,313,657	4	58,353	2	1.2	4	6.5	...	...	...	...	1	9

BY TYPE OF ORGANIZATION

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959								
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	
113	8,268,377	53	267,635	47	57.3	18	68.7	...	...	...	...	6
2	76,900	2	40,900	2	2.3	1	37.7	...	...	...	...	...
65	233,395	45	139,480	41	46.4	11	22.7	...	...	...	...	5
46	7,958,082	6	87,255	4	8.6	6	8.3	...	...	...	...	1

BY YEAR OF ORGANIZATION

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959								
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	
113	8,268,377	53	267,635	47	57.3	18	68.7	...	...	...	...	6
62	220,250	41	139,300	40	45.4	11	22.7	...	...	...	...	5
51	8,048,127	9	128,335	7	11.9	7	46.0	...	...	...	...	1

DRAINAGE OF AGRICULTURAL LANDS

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data.]

	Item and Census year	The State	Allen	Anshand	Ashtabula	Auglaize	Brown	Butler	Champaign	Clark
AREA										
1	Approximate land area.....acres 1960...	26,222,080	262,400	267,520	451,840	256,000	314,240	301,440	277,120	257,280
2	Land in farms.....acres 1959...	18,506,796	206,047	214,151	243,120	232,589	269,075	219,987	247,776	211,762
3	Drainage projects.....number 1960...	142	1	1	1	2	6	2	9	6
4	1950...	63	1	1	1	1	1	1	1	1
5	Total area in drainage projects ¹.....acres served 1960...	8,904,907	215,018	11,059	45,000	247,223	8,005	4,581	174,245	43,958
6	1950...	8,923,362	227,520	11,059	45,000	247,223	4,059	3,941	165,376	31,248
7	Area not used for agriculture or not drained.....acres served 1960...	95,492	...	...	2,880	...	...	...	...	...
8	Net area drained and used for agriculture.....acres served 1960...	8,809,415	215,018	11,059	42,120	247,223	8,005	4,581	174,245	43,958
9	Drainage established before 1950.....acres served 1960...	8,747,745	215,018	11,059	42,120	247,223	4,059	3,941	168,046	35,173
10	Area added, 1950-1959.....acres served 1960...	61,670	...	...	...	...	3,946	640	6,199	8,785
11	Area served by two or more projects.....acres served 1960...	64,162	...	...	...	600	...	...	10,482	500
PROJECTS, 1960, BY TYPE OF ORGANIZATION										
12	Drains owned by one landowner.....number of projects...	3	...	...	...	...	...	...	...	...
13	acres served ² ...	2,424	...	...	...	...	...	...	...	...
14	Cooperative or mutual drains.....number of projects...	76	...	...	...	1	5	1	8	5
15	acres served ³ ...	88,555	...	...	...	600	3,946	640	13,492	5,296
16	Legally organized public drains.....number of projects...	63	1	1	1	1	1	1	1	1
17	acres served ³ ...	8,782,878	215,018	11,059	42,120	247,223	4,059	3,941	171,235	39,162
PROJECTS, 1960, BY YEAR STARTED										
18	1950-1959.....number of projects...	63	...	...	...	1	5	1	5	4
19	acres served ² ...	68,803	...	...	...	600	3,946	640	5,662	3,611
20	Prior to 1950.....number of projects...	79	1	1	1	1	1	1	4	2
21	acres served ² ...	8,805,054	215,018	11,059	42,120	247,223	4,059	3,941	179,065	40,847
DRAINAGE OPERATIONS, 1950-1959 ³										
22	Cost of drainage works and services.....projects reporting...	113	1	1	...	2	5	(4)	9	6
23	dollars...	8,268,377	408,095	257,626	...	215,048	15,327	(4)	59,772	91,481
24	New drainage works constructed, enlarged, or installed.....projects reporting...	53	...	...	...	(4)	5	(4)	4	5
25	dollars...	267,635	...	...	...	(4)	15,327	(4)	11,779	10,750
26	Open ditches.....projects reporting...	47	...	...	...	...	5	(4)	3	5
27	length, miles...	57.3	...	...	...	...	11.4	(4)	2.2	3.7
28	Tile or covered drains.....projects reporting...	18	...	...	...	(4)	...	...	2	2
29	length, miles...	68.7	...	...	...	(4)	...	...	2.2	5.0
30	Levees or dikes.....projects reporting...	...	...	...	...	...	...	...	...	...
31	length, miles...	...	...	...	...	...	...	...	...	...
32	Pumps.....projects reporting...	...	...	...	...	...	...	...	...	...
33	number of pumps...	...	...	...	...	...	...	...	...	...
34	Other (see text).....projects reporting...	6	...	...	...	(4)	...	...	...	...
35	Cost of maintenance, operation, repair, and administration.....projects reporting...	77	1	1	...	(4)	...	...	9	4
36	dollars...	8,000,742	408,095	257,626	...	(4)	...	...	47,993	80,731

¹Land served by two or more projects counted only once.²Acres served by two projects are included for each project. See text.³Includes projects taken over by another project prior to 1960. See text.⁴Included in State total only.

County Table 1.—DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

Item and Census year	Clermont	Clinton	Crawford	Cuyahoga	Darke	Defiance	Delaware	Erie	Fairfield
AREA									
1 Approximate land area.....acres 1950...	293,120	263,040	258,560	291,840	387,200	262,400	281,600	168,960	323,200
2 Land in farms.....acres 1959...	174,283	237,121	234,868	19,889	359,523	235,195	235,397	114,018	267,340
3 Drainage projects..... number 1960...	1	3	3	1	1	1	4	1	3
4 1950...	1	1	1	1	1	1	1	1	1
5 Total area in drainage projects ¹.....acres served 1960...	2,130	96,882	157,472	16,640	387,200	253,952	189,440	125,512	48,890
6 1950...	2,130	96,882	152,072	33,280	387,200	241,152	189,056	128,512	46,365
7 Area not used for agriculture or not drained.....acres served 1960...	...	...	680	...	1,400	...	...	...	2,080
9 Net area drained and used for agriculture.....acres served 1960...	2,130	96,882	156,792	16,640	385,800	253,952	189,440	125,512	46,810
9 Drainage established before 1950.....acres served 1960...	2,130	96,882	150,392	16,640	385,800	253,952	189,056	125,512	46,810
10 Area added, 1950-1959.....acres served 1960...	...	...	6,400	...	...	...	384	...	...
11 Area served by two or more projects.....acres served 1960...	...	2,454	3,274	...	...	...	2,724	...	2,700
PROJECTS, 1960, BY TYPE OF ORGANIZATION									
12 Drains owned by one landowner..... number of projects...	...	...	1	...	...	...	...	...	...
13 acres served ²...	...	...	824	...	...	...	...	...	...
14 Cooperative or mutual drains..... number of projects...	...	2	1	...	...	...	3	...	2
15 acres served ²...	...	2,454	2,450	...	...	...	3,004	...	2,700
16 Legally organized public drains..... number of projects...	1	1	1	1	1	1	1	1	1
17 acres served ² ...	2,130	96,882	156,792	16,640	385,800	253,952	189,440	125,512	46,810
PROJECTS, 1960, BY YEAR STARTED									
18 1950-1959..... number of projects...	...	2	1	...	...	...	1	...	1
19 acres served ²...	...	2,454	2,450	...	...	...	1,700	...	1,200
20 Prior to 1950..... number of projects...	1	1	2	1	1	1	3	1	2
21 acres served ² ...	2,130	96,882	157,616	16,640	385,800	253,952	190,744	125,512	48,310
DRAINAGE OPERATIONS, 1950-1959 ³									
22 Cost of drainage works and services.....projects reporting...	...	3	2	...	1	1	2	1	1
23 dollars...	...	32,861	104,634	...	36,000	155,178	35,999	53,414	2,925
24 New drainage works constructed, enlarged, or installed.....projects reporting...	...	3	...	...	...	...	...	...	...
25 dollars...	...	28,642	...	...	...	...	...	...	...
26 Open ditches.....projects reporting...	...	3	...	...	...	...	...	...	...
27 length, miles...	...	7.6	...	...	...	...	...	...	...
28 Tills or covered drains.....projects reporting...	...	1	...	...	...	...	...	...	...
29 length, miles...	...	1.7	...	...	...	...	...	...	...
30 Levees or dikes.....projects reporting...	...	...	...	...	...	...	...	...	...
31 length, miles...	...	...	...	...	...	...	...	...	...
32 Pumps.....projects reporting...	...	...	...	...	...	...	...	...	...
33 number of pumps...	...	...	...	...	...	...	...	...	...
34 Other (see text).....projects reporting...	...	...	...	...	...	...	...	...	...
35 Cost of maintenance, operation, repair, and administration.....projects reporting...	...	1	2	...	1	1	2	1	1
36 dollars...	...	4,219	104,634	...	36,000	155,178	35,999	53,414	2,925

¹Land served by two or more projects counted only once.²Acres served by two projects are included for each project. See text.³Includes projects taken over by another project prior to 1960. See text.

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

Item and Census year		Fayette	Franklin	Fulton	Geauga	Greene	Hancock	Hardin	Henry	Holmes
AREA										
1	Approximate land area.....acres 1960...	259,840	343,680	260,480	260,480	266,240	340,480	298,880	266,240	270,720
2	Land in farms.....acres 1959...	251,643	198,660	245,550	115,563	218,783	323,038	262,170	250,069	222,446
3	Drainage projects.....number 1960...	1	1	1	1	5	1	2	1	1
4	1950...	1	1	1	1	1	1	1	1	1
5	Total area in drainage projects ¹.....acres served 1960...	252,992	290,300	256,371	4,397	46,489	335,083	298,880	264,140	5,536
6	1950...	252,992	292,860	256,371	4,397	43,804	335,883	298,880	264,140	5,536
7	Area not used for agriculture or not drained.....acres served 1960...	1,600	27,872	...	...	...	...	1,760	...	...
8	Net area drained and used for agriculture.....acres served 1960...	251,392	262,428	256,371	4,397	46,489	335,083	297,120	264,140	5,536
9	Drainage established before 1950.....acres served 1960...	251,392	262,428	256,371	4,397	45,674	335,083	297,120	264,140	5,536
10	Area added, 1950-1959.....acres served 1960...	...	...	...	...	815	...	...	...	...
11	Area served by two or more projects.....acres served 1960...	...	...	...	...	6,680	...	1,100	...	...
PROJECTS, 1960, BY TYPE OF ORGANIZATION										
12	Drains owned by one landowner.....number of projects...	...	...	...	...	...	...	...	...	...
13	acres served ²...	...	...	...	...	...	...	...	...	...
14	Cooperative or mutual drains.....number of projects...	...	...	...	...	4	...	1	...	...
15	acres served ²...	...	...	...	...	7,450	...	1,100	...	...
16	Legally organized public drains.....number of projects...	1	1	1	1	1	1	1	1	1
17	acres served ² ...	251,392	262,428	256,371	4,397	45,719	335,083	297,120	264,140	5,536
PROJECTS, 1960, BY YEAR STARTED										
18	1950-1959.....number of projects...	...	...	...	...	2	...	1	...	...
19	acres served ²...	...	...	...	...	2,200	...	1,100	...	...
20	Prior to 1950.....number of projects...	1	1	1	1	3	1	1	1	1
21	acres served ² ...	251,392	262,428	256,371	4,397	50,969	335,083	297,120	264,140	5,536
DRAINAGE OPERATIONS, 1950-1959 ³										
22	Cost of drainage works and services.....projects reporting...	1	1	1	...	3	1	2	1	...
23	dollars...	61,950	62,914	358,762	...	16,650	349,499	250,456	256,716	...
24	New drainage works constructed, enlarged, or installed.....projects reporting...	...	...	...	...	3	...	2	...	...
25	dollars...	...	...	...	...	11,402	...	3,992	...	...
26	Open ditches.....projects reporting...	...	...	...	...	3	...	...	...	...
27	length, miles...	...	...	...	...	3.9	...	...	...	...
28	Tile or covered drains.....projects reporting...	...	...	...	...	1	...	1	...	...
29	length, miles...	...	...	...	...	0.1	...	0.7	...	...
30	Levees or dikes.....projects reporting...	...	...	...	...	...	...	...	...	...
31	length, miles...	...	...	...	...	...	...	...	...	...
32	Pumps.....projects reporting...	...	...	...	...	...	...	...	...	...
33	number of pumps...	...	...	...	...	...	...	...	...	...
34	Other (see text).....projects reporting...	...	...	...	...	...	...	2	...	...
35	Cost of maintenance, operation, repair, and administration.....projects reporting...	1	1	1	...	1	1	1	1	...
36	dollars...	61,950	62,914	358,762	...	5,248	349,499	246,464	256,716	...

¹Land served by two or more projects counted only once.²Acres served by two projects are included for each project. See text.³Includes projects taken over by another project prior to 1960. See text.

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

Item and Census year	Buron	Knox	Licking	Logan	Lorain	Lucas	Madison	Mahoning	Marion
AREA									
1 Approximate land area.....acres 1950...	318,080	334,720	439,040	295,040	316,800	219,520	296,960	268,160	259,200
2 Land in farms.....acres 1959...	271,221	267,942	322,017	247,875	192,656	100,885	277,601	120,877	225,069
3 Drainage projects.....number 1960...	6	1	3	3	2	1	5	1	4
4 1950...	1	1	1	1	1	1	1	1	1
5 Total area in drainage projects ¹.....acres served 1960...	99,509	13,286	79,283	246,871	190,165	178,843	270,216	1,720	248,472
6 1950...	98,584	13,286	79,283	246,871	190,165	178,843	261,216	1,720	246,392
7 Area not used for agriculture or not drained.....acres served 1960...	...	...	...	...	9,600	36,440	...	...	1,440
8 Net area drained and used for agriculture.....acres served 1960...	99,509	13,286	79,283	246,871	180,565	142,403	270,216	1,720	247,032
9 Drainage established before 1950.....acres served 1960...	98,984	13,286	79,283	246,871	180,565	142,403	270,216	1,720	244,952
10 Area added, 1950-1959.....acres served 1960...	525	...	...	...	...	...	...	...	2,080
11 Area served by two or more projects.....acres served 1960...	2,837	...	1,850	4,345	850	...	3,150	...	1,882
PROJECTS, 1960, BY TYPE OF ORGANIZATION									
12 Drains owned by one landowner.....number of projects...	...	...	...	...	...	...	...	...	...
13 acres served ²...	...	...	...	...	...	...	...	...	...
14 Cooperative or mutual drains.....number of projects...	5	...	2	2	1	...	4	...	3
15 acres served ² ...	3,362	...	1,850	4,345	850	...	3,150	...	1,882
16 Legally organized public drains.....number of projects...	1	1	1	1	1	1	1	1	1
17 acres served ² ...	98,984	13,286	79,283	246,871	180,565	142,403	270,216	1,720	247,032
PROJECTS, 1960, BY YEAR STARTED									
18 1950-1959.....number of projects...	5	...	2	2	1	...	4	...	...
19 acres served ² ...	3,362	...	1,850	4,345	850	...	3,150	...	...
20 Prior to 1950.....number of projects...	1	1	1	1	1	1	1	1	4
21 acres served ² ...	98,984	13,286	79,283	246,871	180,565	142,403	270,216	1,720	248,914
DRAINAGE OPERATIONS, 1950-1959 ³									
22 Cost of drainage works and services.....projects reporting...	6	...	3	3	2	1	5	...	1
23 dollars...	98,024	...	22,143	172,988	110,379	927,528	121,201	...	141,369
24 New drainage works constructed, enlarged, or installed.....projects reporting...	2	...	...	...	(*)	...	4	...	...
25 dollars...	9,900	...	...	...	(*)	...	27,079	...	...
26 Open ditches.....projects reporting...	2	...	...	...	(*)	...	3	...	...
27 length, miles...	0.9	...	...	...	(*)	...	1.8	...	...
28 Tile or covered drains.....projects reporting...	1	...	...	...	...	...	2	...	...
29 length, miles...	9.1	...	...	...	...	...	2.3	...	...
30 Levees or dikes.....projects reporting...	...	...	...	...	...	...	...	...	...
31 length, miles...	...	...	...	...	...	...	...	...	...
32 Pumps.....projects reporting...	...	...	...	...	...	...	...	...	...
33 number of pumps...	...	...	...	...	...	...	...	...	...
34 Other (see text).....projects reporting...	...	...	...	...	...	...	...	...	...
35 Cost of maintenance, operation, repair, and administration.....projects reporting...	4	...	3	3	(*)	1	2	...	1
36 dollars...	88,124	...	22,143	172,988	(*)	927,528	94,122	...	141,369

¹Land served by two or more projects counted only once.²Acres served by two projects are included for each project. See text.³Includes projects taken over by another project prior to 1960. See text.⁴Included in State total only.

DRAINAGE OF AGRICULTURAL LANDS

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

Item and Census year	Medina	Mercer	Miami	Montgomery	Morrow	Muskingum	Ottawa	Paulding	Perry
AREA									
1 Approximate land area.....acres 1960...	271,360	290,560	260,480	297,600	258,560	424,320	168,320	266,240	261,760
2 Land in farms.....acres 1950...	174,970	280,793	220,429	174,466	223,076	276,555	120,097	244,117	138,392
3 Drainage projects..... number 1960...	1	4	2	6	1	1	1	1	1
4 1950...	1	1	1	1	1	1	1	1	1
5 Total area in drainage projects ¹ acres served 1960...	16,825	287,060	189,176	61,260	82,179	1,500	138,583	262,690	2,743
6 1950...	17,355	287,060	185,344	60,160	80,859	1,500	139,993	262,690	2,743
7 Area not used for agriculture or not drained..... acres served 1960...	...	...	...	...	...	...	...	...	...
8 Not area drained and used for agriculture..... acres served 1960...	16,825	287,060	189,176	61,260	82,179	1,500	138,583	262,690	2,743
9 Drainage established before 1950..... acres served 1960...	16,825	287,060	185,344	60,160	80,859	1,500	138,583	262,690	2,743
10 Area added, 1950-1959..... acres served 1960...	...	...	3,832	1,100	1,320	...	...	...	...
11 Area served by two or more projects..... acres served 1960...	...	1,979	...	3,030	...	...	...	...	...
PROJECTS, 1960, BY TYPE OF ORGANIZATION									
12 Drains owned by one landowner..... number of projects...	...	...	...	1	...	...	...	...	...
13 acres served ²...	...	...	...	1,100	...	...	...	...	...
14 Cooperative or mutual drains..... number of projects...	...	3	1	4	...	...	...	...	...
15 acres served ²...	...	1,979	600	3,030	...	...	...	...	...
16 Legally organized public drains..... number of projects...	1	1	1	1	1	1	1	1	1
17 acres served ² ...	16,825	287,060	188,576	60,160	82,179	1,500	138,583	262,690	2,743
PROJECTS, 1960, BY YEAR STARTED									
18 1950-1959..... number of projects...	...	1	1	5	...	...	...	...	...
19 acres served ²...	...	578	600	4,130	...	...	...	...	...
20 Prior to 1950..... number of projects...	1	3	1	1	1	1	1	1	1
21 acres served ² ...	16,825	288,461	188,576	60,160	82,179	1,500	138,583	262,690	2,743
DRAINAGE OPERATIONS, 1950-1959 ³									
22 Cost of drainage works and services..... projects reporting...	...	2	2	6	1	...	1	1	...
23 dollars...	...	530,031	98,964	36,670	21,505	...	106,509	233,370	...
24 New drainage works constructed, enlarged, or installed..... projects reporting...	...	...	(⁴)	5	...	...	...	...	...
25 dollars...	...	...	(⁴)	15,170	...	...	...	...	...
26 Open ditches..... projects reporting...	...	...	(⁴)	5	...	...	...	...	...
27 length, miles...	...	...	(⁴)	4.7	...	...	...	...	...
28 Tile or covered drains..... projects reporting...	...	...	...	...	...	...	...	...	...
29 length, miles...	...	...	...	...	...	...	...	...	...
30 Levees or dikes..... projects reporting...	...	...	...	...	...	...	...	...	...
31 length, miles...	...	...	...	...	...	...	...	...	...
32 Pumps..... projects reporting...	...	...	...	...	...	...	...	...	...
33 number of pumps...	...	...	...	...	...	...	...	...	...
34 Other (see text)..... projects reporting...	...	...	...	1	...	...	...	...	...
35 Cost of maintenance, operation, repair, and administration..... projects reporting...	...	2	(⁴)	1	1	...	1	1	...
36 dollars...	...	530,031	(⁴)	21,500	21,505	...	106,509	233,370	...

¹Land served by two or more projects counted only once.²Acres served by two projects are included for each project. See text.³Includes projects taken over by another project prior to 1960. See text.⁴Included in State total only.

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

Item and Census year		Pickaway	Portage	Preble	Putnam	Richland	Ross	Sandusky	Seneca	Shelby
AREA										
1	Approximate land area.....acres 1960...	324,480	322,560	273,280	311,040	318,080	439,680	262,400	352,640	261,760
2	Land in farms.....acres 1960...	306,774	162,106	239,417	294,286	215,858	324,268	233,981	324,987	233,617
3	Drainage projects.....number 1960...	5	1	3	1	1	5	1	1	7
4	1950...	1	1	1	1	1	1	1	1	1
5	Total area in drainage projects ¹.....acres served 1960...	50,146	21,646	216,384	311,040	57,614	3,033	243,776	207,104	207,872
6	1950...	44,646	21,146	216,384	386,753	45,820	583	243,776	207,104	207,872
7	Area not used for agriculture or not drained.....acres served 1960...	...	600	720	...	500	...	720	...	...
8	Net area drained and used for agriculture.....acres served 1960...	50,146	21,046	215,664	311,040	57,114	3,033	243,056	207,104	207,872
9	Drainage established before 1950.....acres served 1960...	44,646	21,046	215,664	311,040	45,320	583	243,056	207,104	207,872
10	Area added, 1950-1959.....acres served 1960...	5,500	...	...	...	11,794	2,450	...	...	...
11	Area served by two or more projects.....acres served 1960...	...	...	2,732	...	...	...	...	...	8,499
PROJECTS, 1960, BY TYPE OF ORGANIZATION										
12	Drains owned by one landowner.....number of projects...	...	...	...	...	...	...	...	...	...
13	acres served ²...	...	...	...	...	...	...	...	...	...
14	Cooperative or mutual drains.....number of projects...	4	...	2	...	...	4	...	...	6
15	acres served ² ...	7,000	...	2,732	...	...	2,450	...	...	8,499
16	Legally organized public drains.....number of projects...	1	1	1	1	1	1	1	1	1
17	acres served ² ...	43,146	21,046	215,664	311,040	57,114	583	243,056	207,104	207,872
PROJECTS, 1960, BY YEAR STARTED										
18	1950-1959.....number of projects...	4	...	2	...	...	4	...	...	6
19	acres served ² ...	7,000	...	2,732	...	...	2,450	...	...	8,499
20	Prior to 1950.....number of projects...	1	1	1	1	1	1	1	1	1
21	acres served ² ...	43,146	21,046	215,664	311,040	57,114	583	243,056	207,104	207,872
DRAINAGE OPERATIONS, 1950-1959 ³										
22	Cost of drainage works and services.....projects reporting...	4	1	3	1	1	4	1	1	7
23	dollars...	12,940	32,000	14,403	297,881	52,787	8,010	326,179	374,657	246,058
24	New drainage works constructed, enlarged, or installed.....projects reporting...	4	...	2	...	...	4	...	...	2
25	dollars...	12,940	...	5,291	...	...	8,010	...	...	27,798
26	Open ditches.....projects reporting...	3	...	2	...	...	4	...	...	2
27	length, miles...	1.6	...	2.3	...	...	5.2	...	...	0.5
28	Tile or covered drains.....projects reporting...	2	...	...	...	...	...	...	...	1
29	length, miles...	0.7	...	...	...	...	...	...	...	2.8
30	Levees or dikes.....projects reporting...	...	...	...	...	...	...	...	...	...
31	length, miles...	...	...	...	...	...	...	...	...	...
32	Pumps.....projects reporting...	...	...	...	...	...	...	...	...	...
33	number of pumps...	...	...	...	...	...	...	...	...	...
34	Other (see text).....projects reporting...	...	...	...	...	...	1	...	...	...
35	Cost of maintenance, operation, repair, and administration.....projects reporting...	...	1	3	1	1	...	1	1	7
36	dollars...	...	32,000	9,112	297,881	52,787	...	326,179	374,657	218,260

¹Land served by two or more projects counted only once.²Acres served by two projects are included for each project. See text.³Includes projects taken over by another project prior to 1960. See text.

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1960 data.]

Item and Census year	Stark	Summit	Trumbull	Union	Van Wert	Warren	Wayne	Williams	Wood	Wyandot
AREA										
1 Approximate land area.....acres 1960...	366,720	264,320	396,800	277,760	261,760	261,120	352,640	269,440	395,520	259,840
2 Land in farms.....acres 1959...	204,003	50,149	182,776	252,079	250,238	188,023	298,938	242,814	339,989	239,651
3 Drainage projects.....number 1960...	1	1	1	3	1	4	1	1	1	1
4 1950...	1	1	1	1	1	1	1	1	1	1
5 Total area in drainage projects ¹.....acres served 1960...	14,224	21,990	18,918	277,100	257,610	11,896	58,016	245,696	385,739	143,327
6 1950...	14,384	21,310	18,918	277,100	257,610	10,196	58,016	245,696	385,739	139,307
7 Area not used for agriculture or not drained.....acres served 1960...	...	4,640	...	...	...	...	...	...	2,560	...
8 Net area drained and used for agriculture.....acres served 1960...	14,224	17,350	18,918	277,100	257,610	11,896	58,016	245,696	383,179	143,327
9 Drainage established before 1950.....acres served 1960...	14,224	16,670	18,918	277,100	257,610	10,696	58,016	245,696	383,179	139,307
10 Area added, 1950-1959.....acres served 1960...	...	680	...	...	...	1,200	...	...	...	4,020
11 Area served by two or more projects.....acres served 1960...	...	...	...	2,494	...	...	...	...	...	...
PROJECTS, 1960, BY TYPE OF ORGANIZATION										
12 Drains owned by one landowner.....number of projects...	...	...	...	...	...	1	...	...	...	...
13 acres served ²...	...	...	...	...	...	500	...	...	...	...
14 Cooperative or mutual drains.....number of projects...	...	...	...	2	...	2	...	...	...	...
15 acres served ²...	...	...	...	2,494	...	1,200	...	...	...	...
16 Legally organized public drains.....number of projects...	1	1	1	1	1	1	1	1	1	1
17 acres served ² ...	14,224	17,350	18,918	277,100	257,610	10,196	58,016	245,696	383,179	143,327
PROJECTS, 1960, BY YEAR STARTED										
18 1950-1959.....number of projects...	...	...	...	2	...	2	...	...	...	...
19 acres served ²...	...	...	...	2,494	...	1,200	...	...	...	...
20 Prior to 1950.....number of projects...	1	1	1	1	1	2	1	1	1	1
21 acres served ² ...	14,224	17,350	18,918	277,100	257,610	10,696	58,016	245,696	383,179	143,327
DRAINAGE OPERATIONS, 1950-1959 ³										
22 Cost of drainage works and services.....projects reporting...	...	1	...	3	1	3	1	1	1	1
23 dollars...	...	10,046	...	123,609	376,774	97,500	41,056	168,485	518,495	110,752
24 New drainage works constructed, enlarged, or installed.....projects reporting...	...	...	...	2	...	3	...	...	...	...
25 dollars...	...	...	...	3,079	...	56,500	...	...	...	...
26 Open ditches.....projects reporting...	...	...	...	2	...	3	...	...	...	...
27 length, miles...	...	...	...	1.7	...	3.7	...	...	...	...
28 Ties or covered drains.....projects reporting...	...	...	...	1	...	3	...	...	...	...
29 length, miles...	...	...	...	0.1	...	43.4	...	...	...	...
30 Levees or dikes.....projects reporting...	...	...	...	...	...	...	...	...	...	...
31 length, miles...	...	...	...	...	...	...	...	...	...	...
32 Pumps.....projects reporting...	...	...	...	...	...	...	...	...	...	...
33 number of pumps...	...	...	...	...	...	...	...	...	...	...
34 Other (see text).....projects reporting...	...	...	...	1	...	...	...	...	...	...
35 Cost of maintenance, operation, repair, and administration.....projects reporting...	...	1	...	1	1	2	1	1	1	1
36 dollars...	...	10,046	...	120,530	376,774	41,000	41,056	168,485	518,495	110,752

¹Land served by two or more projects counted only once.²Acres served by two projects are included for each project. See text.³Includes projects taken over by another project prior to 1960. See text.

State Table 1.—DRAINAGE PROJECTS—NUMBER, AREA, COST, AND WORKS, 1920 TO 1960

[See text for comparability of data.]

Item	1960 Census	1950 Census	1940 Census	1930 Census	1920 Census
AREA					
Approximate land area.....acres...	44,087,680	44,179,840	44,341,120	44,424,960	44,424,960
Land in farms.....acres...	35,800,688	36,006,603	34,803,317	33,790,817	31,951,934
Drainage projects.....number...	31	18	129	NA	NA
Total area in drainage projects.....acres served...	133,796	300,884	197,646	170,158	12,150
Area not used for agriculture or not drained.....acres served...	...	NA	NA	NA	NA
Net area drained and used for agriculture.....acres served...	133,796	NA	² 182,980	² 163,936	NA
Drainage established 10 years or more before Census date.....acres served...	115,212	NA	NA	NA	NA
Drainage established within 10 years of Census date.....acres served...	18,584	NA	NA	NA	NA
Area served by two or more projects.....acres served...	...	NA	...	960	...
PROJECTS BY TYPE OF ORGANIZATION					
Drains owned by one landowner.....number of projects...	11	(³)	...	NA	NA
.....acres served ⁴ ...	9,942	(³)	...	4,110	NA
Cooperative or mutual drains.....number of projects...	10	(³)	...	...	...
.....acres served ⁴ ...	9,656	(³)	...	...	...
Legally organized public drains.....number of projects...	10	³ 14	NA	NA	NA
.....acres served ⁴ ...	114,198	³ 298,853	197,646	166,048	NA
PROJECTS BY YEAR STARTED					
Started 10 years or more before Census date.....number of projects...	11	NA	NA	NA	NA
.....acres served...	114,698	NA	172,326	99,308	NA
Started within 10 years of Census date.....number of projects...	20	NA	NA	NA	NA
.....acres served...	19,098	NA	25,320	70,850	NA
OPERATIONS, 10-YEAR PERIOD PRECEDING CENSUS DATE					
Cost of drainage works and services.....projects reporting...	24	10	NA	NA	NA
.....dollars...	249,053	299,114	NA	NA	NA
New drainage works constructed, enlarged, or installed.....projects reporting...	22	⁴ 1	NA	NA	NA
.....cost, dollars...	241,561	⁴ 62,027	NA	NA	NA
Open ditches.....projects reporting...	22	1	NA	NA	NA
.....length, miles...	172.5	16	NA	NA	NA
Tile or covered drains.....projects reporting...	...	...	NA	NA	NA
.....length, miles...	...	...	NA	NA	NA
Levees or dikes.....projects reporting...	3	...	NA	NA	NA
.....length, miles...	2.2	...	NA	NA	NA
Pumps.....projects reporting...	...	NA	NA	NA	NA
.....number of pumps...	...	NA	NA	NA	NA
Other (see text).....projects reporting...	...	NA	NA	NA	NA
Cost of maintenance, operation, repair, and administration.....projects reporting...	7	10	NA	NA	NA
.....dollars...	7,492	237,087	NA	NA	NA
STATUS ON CENSUS DATE					
Capital investment.....dollars...	NA	NA	1,971,350	2,283,598	76,415
Physical works:					
Open ditches.....length, miles...	NA	NA	334.3	303.0	18.6
Tile drains.....length, miles...	NA	NA	...	...	...
Levees and dikes.....length, miles...	NA	NA	...	...	5.0
Pumping units.....number of units...	NA	NA	...	...	...

NA Not available.

¹In 1940, each county drain was counted as a separate project. See text.²Not fully comparable. See text.³All projects for 1950 included with county drains, except 4 counties and 2,031 acres from Census of Irrigation. See text.⁴Cost of new works for lands not previously drained.

DRAINAGE OF AGRICULTURAL LANDS

State Table 2.—DRAINAGE

	Size of project (Based on area of agricultural land in project)	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
			Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
					Projects reporting	Acres	Projects reporting	Acres
1	All projects.....	31	133,796	...	12	115,212	19	18,584
2	500 to 999 acres.....	15	9,296	...	2	1,014	13	8,282
3	1,000 to 1,999 acres.....	6	9,592	...	1	1,790	5	7,802
4	2,000 to 4,999 acres.....	3	10,924	...	2	8,424	1	2,500
5	5,000 to 9,999 acres.....	2	12,176	...	2	12,176	...	...
6	10,000 to 19,999 acres.....	3	42,656	...	3	42,656	...	...
7	20,000 to 49,999 acres.....	2	49,152	...	2	49,152	...	...
8	50,000 to 99,999 acres.....	...	...	...	...	...	...	...
9	100,000 or more acres.....	...	...	...	...	...	...	...

State Table 3.—DRAINAGE PROJECTS, 1960,

	Type of organization	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
			Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
					Projects reporting	Acres	Projects reporting	Acres
1	All projects.....	31	133,796	...	12	115,212	19	18,584
2	Drains owned by one landowner.....	11	9,942	...	2	1,014	9	8,928
3	Cooperative or mutual drains.....	10	9,656	...	...	...	10	9,656
4	Legally organized public drains.....	10	114,198	...	10	114,198	...	...

State Table 4.—DRAINAGE PROJECTS, 1960,

	Year of organization	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
			Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
					Projects reporting	Acres	Projects reporting	Acres
1	All projects.....	31	133,796	...	12	115,212	19	18,584
2	1950-1959.....	20	19,098	...	1	514	19	18,584
3	Prior to 1950.....	11	114,698	...	11	114,698	...	...

PROJECTS, 1960, BY SIZE

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959								
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	
24	249,053	22	241,561	22	172.5	...	...	3	2.2	...	...	...
15	79,331	15	76,731	15	74.2	...	...	1	0.3	...	...	...
5	110,876	5	109,376	5	59.3	...	...	2	1.9	...	...	...
2	44,754	1	43,654	1	32.0	...	...	...	...	...	...	...
2	14,092	1	11,800	1	7.0	...	...	...	...	...	...	...
...
...
...
...

BY TYPE OF ORGANIZATION

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959								
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	
24	249,053	22	241,561	22	172.5	...	...	3	2.2	...	...	...
11	98,276	11	96,576	11	124.6	...	...	2	2.1	...	...	...
10	135,585	10	133,185	10	40.9	...	...	1	0.1	...	...	...
3	15,192	1	11,800	1	7.0	...	...	...	...	...	...	...

BY YEAR OF ORGANIZATION

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959								
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	
24	249,053	22	241,561	22	172.5	...	...	3	2.2	...	...	...
20	233,361	20	229,261	20	164.8	...	...	3	2.2	...	...	...
4	15,692	2	12,300	2	7.7	...	...	...	...	...	...	...

DRAINAGE OF AGRICULTURAL LANDS

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

Item and Census year	The State	Bryan	Canadian	Choctaw	Cleveland	Garfield	Garvin	Kay	Le Flore	McClain
AREA										
1 Approximate land area.....acres 1960...	44,087,680	570,240	566,400	494,080	350,080	¹ 674,560	520,320	604,160	1,004,160	357,760
2 Land in farms.....acres 1950...	35,800,688	443,290	547,719	330,144	257,908	¹ 687,747	415,649	556,930	440,356	310,410
3 Drainage projects.....number 1960...	31	1	1	4	2	1	1	3	3	1
4 1950...	18	...	1	...	1	1	1	1	...	1
5 Total area in drainage projects ².....acres served 1960...	133,796	1,792	5,376	2,478	12,716	700	17,536	15,188	4,850	26,624
6 1950...	300,884	...	5,376	...	12,032	1	17,536	17,408	...	26,624
7 Area not used for agriculture or not drained.....acres served 1960...	...	...	...	...	...	...	...	...	...	...
8 Net area drained and used for agriculture.....acres served 1960...	133,796	1,792	5,376	2,478	12,716	700	17,536	15,188	4,850	26,624
9 Drainage established before 1950.....acres served 1960...	115,212	...	5,376	...	12,032	...	17,536	13,088	...	26,624
10 Area added, 1950-1959.....acres served 1960...	18,584	1,792	...	2,478	684	700	...	2,100	4,850	...
11 Area served by two or more projects.....acres served 1960...	...	...	...	...	...	...	...	...	...	...
PROJECTS, 1960, BY TYPE OF ORGANIZATION										
12 Drains owned by one landowner.....number of projects...	11	...	...	4	...	1	...	...	3	...
13 acres served ³ ...	9,942	...	...	2,478	...	700	...	...	4,850	...
14 Cooperative or mutual drains.....number of projects...	10	1	...	...	1	...	...	2	...	...
15 acres served ³ ...	9,656	1,792	...	...	684	...	...	2,100	...	...
16 Legally organized public drains.....number of projects...	10	...	1	...	1	...	1	1	...	1
17 acres served ³ ...	114,198	...	5,376	...	12,032	...	17,536	13,088	...	26,624
PROJECTS, 1960, BY YEAR STARTED										
18 1950-1959.....number of projects...	20	1	...	4	1	1	...	2	3	...
19 acres served ³ ...	19,098	1,792	...	2,478	684	700	...	2,100	4,850	...
20 Prior to 1950.....number of projects...	11	...	1	...	1	...	1	1	...	1
21 acres served ³ ...	114,698	...	5,376	...	12,032	...	17,536	13,088	...	26,624
DRAINAGE OPERATIONS, 1950-1959 ⁴										
22 Cost of drainage works and services.....projects reporting...	24	(⁵)	1	4	(⁵)	(⁵)	...	2	3	...
23 dollars...	249,053	(⁵)	140	29,822	(⁵)	(⁵)	...	6,174	118,916	...
24 New drainage works constructed, enlarged, or installed.....projects reporting...	22	(⁵)	...	4	(⁵)	(⁵)	...	2	3	...
25 dollars...	241,561	(⁵)	...	28,122	(⁵)	(⁵)	...	6,174	118,916	...
26 Open ditches.....projects reporting...	22	(⁵)	...	4	(⁵)	(⁵)	...	2	3	...
27 length, miles...	172.5	(⁵)	...	28.5	(⁵)	(⁵)	...	4.4	75.3	...
28 Tilt or covered drains.....projects reporting...	...	...	...	...	...	...	...	...	...	...
29 length, miles...	...	...	...	...	...	...	...	...	...	...
30 Levees or dikes.....projects reporting...	3	...	...	...	...	...	...	1	1	...
31 length, miles...	2.2	...	...	...	...	...	...	0.1	1.8	...
32 Pumps.....projects reporting...	...	...	...	...	...	...	...	...	...	...
33 number of pumps...	...	...	...	...	...	...	...	...	...	...
34 Other (see text).....projects reporting...	...	...	...	...	...	...	...	...	...	...
35 Cost of maintenance, operation, repair, and administration.....projects reporting...	7	(⁵)	1	2	(⁵)	...	...	...	...	...
36 dollars...	7,492	(⁵)	140	1,700	(⁵)	...	...	...	...	...

¹The excess of farm acreage over approximate land area is due to the fact that the entire acreage of a farm is tabulated as in the county in which the headquarters is located, even though a part of the farm may be situated in an adjoining county.

²Land served by two or more projects counted only once.

³Acres served by two projects are included for each project. See text.

⁴Includes projects taken over by another project prior to 1960. See text.

⁵Included in State total only.

County Table 1.—DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data.]

Item and Census year	McIntosh	Maplewood	Oklahoma	Pottawatomie	Rogers	Sequoyah	Tillman	Tulsa	Wagoner	All other counties ¹
AREA										
1 Approximate land area.....acres 1960...	457,600	524,800	451,200	510,080	456,320	446,080	2551,040	366,080	360,320	3,626,880
2 Land in farms.....acres 1959...	320,448	375,890	276,230	378,022	352,376	268,376	2552,302	357,332	285,612	3,309,813
3 Drainage projects.....number 1960...	1	1	1	1	1	5	1	1	3	...
4 1950...	...	1	1	1	...	...	1	1	1	6
5 Total area in drainage projects ².....acres served 1960...	1,790	583	22,528	3,560	800	4,497	4,864	100	7,814	...
6 1950...	...	15,872	22,528	53,474	...	...	4,864	10,752	55,552	58,865
7 Area not used for agriculture or not drained.....acres served 1960...	...	...	...	...	...	...	...	...	...	...
8 Net area drained and used for agriculture.....acres served 1960...	1,790	583	22,528	3,560	800	4,497	4,864	100	7,814	...
9 Drainage established before 1950.....acres served 1960...	1,790	...	22,528	3,560	...	...	4,864	...	7,814	...
10 Area added, 1950-1959.....acres served 1960...	...	583	...	...	800	4,497	...	100	...	...
11 Area served by two or more projects.....acres served 1960...	...	...	...	...	...	...	...	...	...	...
PROJECTS, 1960, BY TYPE OF ORGANIZATION										
12 Drains owned by one landowner.....number of projects...	...	...	...	...	1	...	...	1	2	...
13 acres served ⁴...	...	...	...	...	800	...	...	100	1,014	...
14 Cooperative or mutual drains.....number of projects...	...	1	...	...	...	5	...	...	...	...
15 acres served ⁴...	...	583	...	...	...	4,497	...	...	...	...
16 Legally organized public drains.....number of projects...	1	...	1	1	...	...	1	...	1	...
17 acres served ⁴ ...	1,790	...	22,528	3,560	...	...	4,864	...	6,800	...
PROJECTS, 1960, BY YEAR STARTED										
18 1950-1959.....number of projects...	...	1	...	...	1	5	...	1	1	...
19 acres served ⁴...	...	583	...	...	800	4,497	...	100	514	...
20 Prior to 1950.....number of projects...	1	...	1	1	...	...	1	...	2	...
21 acres served ⁴ ...	1,790	...	22,528	3,560	...	...	4,864	...	7,300	...
DRAINAGE OPERATIONS, 1950-1959 ⁵										
22 Cost of drainage works and services.....projects reporting...	...	(6)	...	...	(6)	5	1	(6)	3	...
23 dollars...	...	(6)	...	...	(6)	16,203	1,100	(6)	20,028	...
24 New drainage works constructed, enlarged, or installed.....projects reporting...	...	(6)	...	...	(6)	5	...	(6)	3	...
25 dollars...	...	(6)	...	...	(6)	16,203	...	(6)	17,876	...
26 Open ditches.....projects reporting...	...	(6)	...	...	(6)	5	...	(6)	3	...
27 length, miles...	...	(6)	...	...	(6)	10.5	...	(6)	11.9	...
28 Tills or covered drains.....projects reporting...	...	...	...	...	...	...	...	...	...	...
29 length, miles...	...	...	...	...	...	...	...	...	...	...
30 Levees or dikes.....projects reporting...	...	...	...	...	(6)	...	...	...	...	...
31 length, miles...	...	...	...	...	(6)	...	...	...	...	...
32 Pumps.....projects reporting...	...	...	...	...	...	...	...	...	...	...
33 number of pumps...	...	...	...	...	...	...	...	...	...	...
34 Other (see text).....projects reporting...	...	...	...	...	...	...	...	...	...	...
35 Cost of maintenance, operation, repair, and administration.....projects reporting...	...	...	...	...	...	...	1	...	1	...
36 dollars...	...	...	...	...	...	...	1,100	...	2,152	...

¹Includes Alfalfa, Caddo, Jackson, Kingfisher, Lincoln, and Stephens counties.²The excess of farm acreage over approximate land area is due to the fact that the entire acreage of a farm is tabulated as in the county in which the headquarters is located, even though a part of the farm may be situated in an adjoining county.³Land served by two or more projects counted only once.⁴Acres served by two projects are included for each project. See text.⁵Includes projects taken over by another project prior to 1960. See text.⁶Included in State total only.

State Table 1.—DRAINAGE PROJECTS—NUMBER, AREA, COST, AND WORKS, 1920 TO 1960

[See text for comparability of data.]

Item	1960 Census	1950 Census	1940 Census	1930 Census	1920 Census
AREA					
Approximate land area.....acres...	61,598,720	61,641,600	61,664,000	61,188,480	61,188,480
Land in farms.....acres...	21,236,298	20,327,583	17,988,307	16,548,678	13,542,318
Drainage projects.....number...	110	1,087	63	NA	NA
Total area in drainage projects.....acres served...	274,754	418,858	348,825	211,182	4,000
Area not used for agriculture or not drained.....acres served...	4,300	NA	NA	NA	NA
Net area drained and used for agriculture.....acres served...	270,454	NA	1302,870	2146,276	NA
Drainage established 10 years or more before Census date.....acres served...	190,869	NA	NA	NA	NA
Drainage established within 10 years of Census date.....acres served...	79,585	NA	NA	NA	NA
Area served by two or more projects.....acres served...	41,927	...	5,090	...	...
PROJECTS BY TYPE OF ORGANIZATION					
Drains owned by one landowner.....number of projects...	6	22	NA	NA	NA
acres served...	25,690	2700	(2)	24,500	NA
Cooperative or mutual drains.....number of projects...	56	29	...	...	...
acres served...	87,807	216,507	...	...	...
Legally organized public drains.....number of projects...	48	244	NA	NA	NA
acres served...	200,724	2161,286	2139,580	2121,778	NA
PROJECTS BY YEAR STARTED					
Started 10 years or more before Census date.....number of projects...	59	244	NA	NA	NA
acres served...	217,629	2158,227	272,282	123,501	NA
Started within 10 years of Census date.....number of projects...	51	211	NA	NA	NA
acres served...	96,592	220,266	76,543	87,681	NA
OPERATIONS, 10-YEAR PERIOD PRECEDING CENSUS DATE					
Cost of drainage works and services.....projects reporting...	98	250	NA	NA	NA
dollars...	5,002,268	2,175,816	NA	NA	NA
New drainage works constructed, enlarged, or installed.....projects reporting...	75	217	NA	NA	NA
cost, dollars...	2,308,055	2476,561	NA	NA	NA
Open ditches.....projects reporting...	66	17	NA	NA	NA
length, miles...	260.3	90	NA	NA	NA
Tile or covered drains.....projects reporting...	6	2	NA	NA	NA
length, miles...	20.4	2	NA	NA	NA
Levees or dikes.....projects reporting...	9	2	NA	NA	NA
length, miles...	43.7	4	NA	NA	NA
Pumps.....projects reporting...	9	NA	NA	NA	NA
number of pumps...	16	NA	NA	NA	NA
Other (see text).....projects reporting...	7	NA	NA	NA	NA
Cost of maintenance, operation, repair, and administration.....projects reporting...	44	NA	NA	NA	NA
dollars...	2,694,213	1,699,255	NA	NA	NA
STATUS ON CENSUS DATE					
Capital investment.....dollars...	NA	NA	5,482,012	4,165,549	200,000
Physical works:					
Open ditches.....length, miles...	NA	NA	780.1	495.1	...
Tile drains.....length, miles...	NA	NA	150.6	42.5	13.0
Levees and dikes.....length, miles...	NA	NA	143.2	121.4	...
Pumping units.....number of units...	NA	270	56	31	...

NA Not available.

1Not fully comparable. See text.

21950 figures exclude 1,032 projects and 240,265 acres in "irrigation enterprises"; 1940 figures exclude 209,245 acres in "irrigation enterprises"; 1930 figures exclude 71,112 acres in "irrigation enterprises" and 13,792 acres classed as "other."

3Cost of new works for lands not previously drained.

DRAINAGE OF AGRICULTURAL LANDS

State Table 2.—DRAINAGE

	Size of project (Based on area of agricultural land in project)	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
			Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
					Projects reporting	Acres	Projects reporting	Acres
1	All projects.....	110	314,221	85,694	64	231,851	51	82,370
2	500 to 999 acres.....	46	32,402	3,644	20	14,049	26	18,353
3	1,000 to 1,999 acres.....	28	37,328	3,486	21	28,315	9	9,013
4	2,000 to 4,999 acres.....	21	65,573	7,137	10	36,042	12	29,531
5	5,000 to 9,999 acres.....	7	44,865	9,572	6	33,392	3	11,473
6	10,000 to 19,999 acres.....	6	78,213	12,975	5	64,213	1	14,000
7	20,000 to 49,999 acres.....	2	55,840	48,880	2	55,840	...	...
8	50,000 to 99,999 acres.....	...	...	...	...	...	...	...
9	100,000 or more acres.....	...	...	...	...	...	...	...

¹Includes projects taken over by another project prior to 1960. See text.

State Table 3.—DRAINAGE PROJECTS, 1960,

	Type of organization	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
			Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
					Projects reporting	Acres	Projects reporting	Acres
1	All projects.....	110	314,221	85,694	64	231,851	51	82,370
2	Drains owned by one landowner.....	6	25,690	...	4	24,600	2	1,090
3	Cooperative or mutual drains.....	56	87,807	15,715	15	25,007	45	62,800
4	Legally organized public drains.....	48	200,724	69,979	45	182,244	4	18,480

State Table 4.—DRAINAGE PROJECTS, 1960,

	Year of organization	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
			Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
					Projects reporting	Acres	Projects reporting	Acres
1	All projects.....	110	314,221	85,694	64	231,851	51	82,370
2	1950-1959.....	51	96,592	20,912	5	15,982	48	80,610
3	Prior to 1950.....	59	217,629	64,782	59	215,869	3	1,760

¹Includes projects taken over by another project prior to 1960. See text.

PROJECTS, 1960, BY SIZE

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959								
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	
98	5,002,268	75	2,308,055	66	260.3	6	20.4	9	43.7	9	16	7
38	337,786	30	262,740	27	49.6	4	15.4	2	5.5	1	1	3
24	763,352	15	337,866	11	39.1	...	...	3	2.2	1	2	1
122	763,303	19	486,831	18	75.6	...	...	2	17.0	3	5	1
7	2,057,129	6	1,046,210	6	39.0	2	5.0	1	1.0	2	5	1
5	618,198	4	54,408	3	37.0	...	...	1	18.0	2	3	1
2	462,500	1	120,000	1	20.0	...	...	...	...	...	...	7
...	...	...	...	...	...	...	...	...	...	...	...	8
...	...	...	...	...	...	...	...	...	...	...	...	9

BY TYPE OF ORGANIZATION

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959								
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	
98	5,002,268	75	2,308,055	66	260.3	6	20.4	9	43.7	9	16	7
6	92,755	5	16,255	4	11.5	1	10.3	1	0.7	1	1	...
52	637,974	51	589,124	49	143.4	3	5.1	2	2.5	1	1	2
40	4,271,539	19	1,702,676	13	105.4	2	5.0	6	40.5	7	14	5

BY YEAR OF ORGANIZATION

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959								
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	
98	5,002,268	75	2,308,055	66	260.3	6	20.4	9	43.7	9	16	7
152	386,435	52	344,709	50	158.2	4	15.4	...	...	...	...	2
46	4,615,833	23	1,963,346	16	102.1	2	5.0	9	43.7	9	16	5

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

	Item and Census year	The State	Benton	Clackamas	Clatsop	Columbia	Coos
AREA							
1	Approximate land area.....acres 1940...	61,598,720	427,520	1,207,680	524,800	413,440	1,031,040
2	Land in farms.....acres 1959...	21,236,298	205,340	319,048	55,082	104,090	254,460
3	Drainage projects.....number 1960...	110	7	1	6	11	6
4	.....1950...	1,087	11	91	9	75	73
5	Total area in drainage projects ¹.....acres served 1940...	274,754	8,487	1,156	7,347	22,829	7,104
6	.....1950...	418,858	108	1,288	5,933	26,192	6,773
7	Area not used for agriculture or not drained ....acres served 1960...	4,300	...	...	...	...	...
8	Net area drained and used for agriculture .....acres served 1940...	270,454	8,487	1,156	7,347	22,829	7,104
9	Drainage established before 1950.....acres served 1940...	190,869	...	1,156	7,347	22,349	7,104
10	Area added, 1950-1959 .....acres served 1960...	79,585	8,487	...	...	480	...
11	Area served by two or more projects.....acres served 1960...	41,927	778	...	...	...	...
PROJECTS, 1960, BY TYPE OF ORGANIZATION							
12	Drains owned by one landowner .....number of projects...	6	...	...	...	...	...
13	.....acres served ² ...	25,690	...	...	...	...	...
14	Cooperative or mutual drains.....number of projects...	56	7	...	...	...	1
15	.....acres served ³ ...	87,807	9,265	...	...	...	1,300
16	Legally organized public drains.....number of projects...	48	...	1	6	11	5
17	.....acres served ³ ...	200,724	...	1,156	7,347	22,829	5,804
PROJECTS, 1960, BY YEAR STARTED							
18	1950-1959 .....number of projects...	51	7	...	...	...	...
19	.....acres served ³ ...	96,592	9,265	...	...	...	...
20	Prior to 1950 .....number of projects...	59	...	1	6	11	6
21	.....acres served ³ ...	217,629	...	1,156	7,347	22,829	7,104
DRAINAGE OPERATIONS, 1950-1959 ³							
22	Cost of drainage works and services .....projects reporting...	98	7	1	4	11	3
23	.....dollars...	5,002,268	48,467	2,515	33,774	930,567	168,000
24	New drainage works constructed, enlarged, or installed.....projects reporting...	75	7	...	...	3	3
25	.....dollars...	2,308,055	48,467	...	...	97,343	80,000
26	Open ditches.....projects reporting...	66	6	...	...	1	1
27	.....length, miles...	260.3	12.9	...	...	0.6	5.0
28	Tile or covered drains.....projects reporting...	6	1	...	...	...	...
29	.....length, miles...	20.4	2.9	...	...	...	...
30	Levees or dikes.....projects reporting...	9	...	...	...	...	1
31	.....length, miles...	43.7	...	...	...	...	2.0
32	Pumps .....projects reporting...	9	...	...	...	2	2
33	.....number of pumps...	16	...	...	...	2	5
34	Other (see text).....projects reporting...	7	...	...	...	2	1
35	Cost of maintenance, operation, repair, and administration.....projects reporting...	44	...	1	4	11	2
36	.....dollars...	2,694,213	...	2,515	33,774	833,224	88,000

¹Land served by two or more projects counted only once.²Acres served by two projects are included for each project. See text.³Includes projects taken over by another project prior to 1960. See text.

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data.]

	Item and Census year	Klamath	Lake	Lane	Lincoln	Linn	Maiheur	Marion
	AREA							
1	Approximate land area.....acres 1960...	3,822,080	5,292,160	2,918,400	630,400	1,464,320	6,316,800	750,720
2	Land in farms.....acres 1960...	1,172,577	1,057,780	365,310	77,707	490,060	1,523,214	351,397
3	Drainage projects.....number 1950...	11	2	17	1	17	1	10
4	1950...	71	8	36	3	33	53	226
5	Total area in drainage projects ¹.....acres served 1960...	67,510	15,500	28,555	979	43,180	5,449	20,432
6	1950...	187,450	19,477	12,311	997	13,673	78,018	4,178
7	Area not used for agriculture or not drained.....acres served 1960...	600	...	1,000	...	...	...	...
8	Net area drained and used for agriculture.....acres served 1960...	66,910	15,500	27,555	979	43,180	5,449	20,432
9	Drainage established before 1950.....acres served 1960...	66,910	15,000	17,047	979	13,642	5,449	...
10	Area added, 1950-1959.....acres served 1960...	...	500	10,508	...	29,538	...	20,432
11	Area served by two or more projects.....acres served 1960...	24,440	...	10,972	...	6,137	...	...
	PROJECTS, 1960, BY TYPE OF ORGANIZATION							
12	Drains owned by one landowner.....number of projects...	3	1	1	...	...	...	1
13	acres served ² ...	9,600	15,000	550	...	...	...	540
14	Cooperative or mutual drains.....number of projects...	3	1	14	...	16	...	7
15	acres served ² ...	4,500	500	20,413	...	36,317	...	4,892
16	Legally organized public drains.....number of projects...	5	...	2	1	1	1	2
17	acres served ² ...	77,250	...	19,004	979	13,000	5,449	15,000
	PROJECTS, 1960, BY YEAR STARTED							
18	1950-1959.....number of projects...	...	1	13	...	15	...	10
19	acres served ²...	...	500	22,360	...	35,675	...	20,432
20	Prior to 1950.....number of projects...	11	1	4	1	2	1	...
21	acres served ² ...	91,350	15,000	17,607	979	13,642	5,449	...
	DRAINAGE OPERATIONS, 1950-1959 ³							
22	Cost of drainage works and services.....projects reporting...	10	(⁴)	15	...	15	1	10
23	dollars...	604,095	(⁴)	336,134	...	101,019	50,000	88,367
24	New drainage works constructed, enlarged, or installed.....projects reporting...	9	(⁴)	15	...	15	1	10
25	dollars...	199,595	(⁴)	314,656	...	101,019	30,000	48,367
26	Open ditches.....projects reporting...	8	(⁴)	15	...	15	1	9
27	length, miles...	56.5	(⁴)	40.4	...	52.5	5.0	37.9
28	Tile or covered drains.....projects reporting...	...	(⁴)	...	...	...	1	2
29	length, miles...	...	(⁴)	...	...	...	3.0	10.7
30	Levees or dikes.....projects reporting...	4	...	...	...	...	...	...
31	length, miles...	34.2	...	...	...	...	...	...
32	Pumps.....projects reporting...	2	...	...	...	...	1	...
33	number of pumps...	3	...	...	...	...	1	...
34	Other (see text).....projects reporting...	...	(⁴)	...	...	...	...	1
35	Cost of maintenance, operation, repair, and administration.....projects reporting...	7	(⁴)	2	...	...	1	1
36	dollars...	404,500	(⁴)	21,478	...	...	20,000	40,000

¹Land served by two or more projects counted only once.²Acres served by two projects are included for each project. See text.³Includes projects taken over by another project prior to 1960. See text.⁴Included in State total only.

DRAINAGE OF AGRICULTURAL LANDS

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

	Item and Census year	Miltnomah	Polk	Tillamook	Union	Washington	Yamhill	All other counties ¹
	AREA							
1	Approximate land area.....acres 1960...	271,360	472,960	713,600	1,300,480	458,240	453,760	29,888,000
2	Land in farms.....acres 1959...	89,379	232,683	68,467	527,353	211,108	260,473	12,218,531
3	Drainage projects.....number 1960...	5	4	8	3	2	2	...
4	.....1950...	22	20	29	11	100	50	173
5	Total area in drainage projects ².....acres served 1960...	22,851	6,560	6,555	5,560	3,650	1,050	...
6	.....1950...	23,638	450	5,927	4,253	6,210	1,491	20,491
7	Area not used for agriculture or not drained.....acres served 1960...	2,700	...	...	...	...	...	...
8	Net area drained and used for agriculture.....acres served 1960...	20,151	6,560	6,555	5,560	3,650	1,050	...
9	Drainage established before 1950.....acres served 1960...	20,151	...	6,555	3,280	3,650	250	...
10	Area added, 1950-1959.....acres served 1960...	...	6,560	...	2,280	...	800	...
11	Area served by two or more projects.....acres served 1960...	...	...	...	...	...	...	...
	PROJECTS, 1960, BY TYPE OF ORGANIZATION							
12	Drains owned by one landowner.....number of projects...	...	...	...	...	...	...	...
13	.....acres served ³...	...	...	...	...	...	...	...
14	Cooperative or mutual drains.....number of projects...	...	3	...	3	1	2	...
15	.....acres served ³...	...	3,560	...	5,560	450	1,050	...
16	Legally organized public drains.....number of projects...	5	1	8	...	1	...	...
17	.....acres served ³ ...	20,151	3,000	6,555	...	3,200	...	...
	PROJECTS, 1960, BY YEAR STARTED							
18	1950-1959.....number of projects...	...	4	...	1	...	1	...
19	.....acres served ³...	...	6,560	...	1,000	...	800	...
20	Prior to 1950.....number of projects...	5	...	8	2	2	1	...
21	.....acres served ³ ...	20,151	...	6,555	4,560	3,650	250	...
	DRAINAGE OPERATIONS, 1950-1959 ⁴							
22	Cost of drainage works and services.....projects reporting...	5	5	6	3	2	(⁵)	...
23	.....dollars...	2,272,704	78,683	149,942	52,582	25,000	(⁵)	...
24	New drainage works constructed, enlarged, or installed.....projects reporting...	3	5	1	3	...	(⁵)	...
25	.....dollars...	1,145,500	76,957	125,000	34,582	...	(⁵)	...
26	Open ditches.....projects reporting...	1	5	...	3	...	(⁵)	...
27	.....length, miles...	10.0	21.8	...	14.7	...	(⁵)	...
28	Tile or covered drains.....projects reporting...	1	...	...	...	...	...	...
29	.....length, miles...	2.0	...	...	...	...	...	...
30	Levees or dikes.....projects reporting...	2	...	1	1	...	...	...
31	.....length, miles...	2.0	...	3.5	2.0	...	...	...
32	Pumps.....projects reporting...	1	...	...	1	...	...	...
33	.....number of pumps...	4	...	...	1	...	...	...
34	Other (see text).....projects reporting...	2	...	...	...	...	...	...
35	Cost of maintenance, operation, repair, and administration.....projects reporting...	5	1	6	2	2	(⁵)	...
36	.....dollars...	1,127,204	1,726	24,942	18,000	25,000	(⁵)	...

¹Includes Baker, Crook, Curry, Douglas, Grant, Harney, Hood River, Jackson, Jefferson, Josephine, Morrow, Umatilla, Wallows, Wasco, and Wheeler counties.²Land served by two or more projects counted only once.³Acres served by two projects are included for each project. See text.⁴Includes projects taken over by another project prior to 1960. See text.⁵Included in State total only.

State Table 1.—DRAINAGE PROJECTS—NUMBER, AREA, COST, AND WORKS, 1920 TO 1960

[See text for comparability of data]

Item	1960 Census	1950 Census	1940 Census	1930 Census	1920 Census
AREA					
Approximate land area.....acres...	19,374,080	19,395,200	19,580,160	19,516,800	19,516,800
Land in farms.....acres...	9,149,492	11,878,793	11,238,697	10,393,113	12,426,675
Drainage projects.....number...	123	45	24	NA	NA
Total area in drainage projects.....acres served...	339,966	249,011	204,366	208,249	140,031
Area not used for agriculture or not drained.....acres served...	1,900	NA	NA	NA	NA
Not area drained and used for agriculture.....acres served...	338,066	NA	¹ 202,002	¹ 94,744	NA
Drainage established 10 years or more before Census date.....acres served...	229,279	NA	NA	NA	NA
Drainage established within 10 years of Census date.....acres served...	108,787	NA	NA	NA	NA
Area served by two or more projects.....acres served...	15,850	8,000	...	...	...
PROJECTS BY TYPE OF ORGANIZATION					
Drains owned by one landowner.....number of projects...	59	20	NA	NA	NA
.....acres served...	88,203	52,477	21,940	15,092	25,200
Cooperative or mutual drains.....number of projects...	52	11	...	...	...
.....acres served...	97,212	28,540	...	...	...
Legally organized public drains.....number of projects...	12	14	NA	NA	NA
.....acres served...	168,501	167,994	182,426	193,157	114,831
PROJECTS BY YEAR STARTED					
Started 10 years or more before Census date.....number of projects...	41	19	NA	NA	...
.....acres served...	234,304	180,935	204,366	76,471	...
Started within 10 years of Census date.....number of projects...	82	26	...	NA	NA
.....acres served...	119,612	68,076	...	131,778	140,031
OPERATIONS, 10-YEAR PERIOD PRECEDING CENSUS DATE					
Cost of drainage works and services.....projects reporting...	95	33	NA	NA	NA
.....dollars...	824,238	319,486	NA	NA	NA
New drainage works constructed, enlarged, or installed.....projects reporting...	95	² 27	NA	NA	NA
.....cost, dollars...	785,638	² 206,956	NA	NA	NA
Open ditches.....projects reporting...	93	28	NA	NA	NA
.....length, miles...	551.2	128	NA	NA	NA
Tile or covered drains.....projects reporting...	10	3	NA	NA	NA
.....length, miles...	43.5	6	NA	NA	NA
Levees or dikes.....projects reporting...	3	1	NA	NA	NA
.....length, miles...	10.4	1	NA	NA	NA
Pumps.....projects reporting...	1	NA	NA	NA	NA
.....number of pumps...	1	NA	NA	NA	NA
Other (see text).....projects reporting...	...	NA	NA	NA	NA
Cost of maintenance, operation, repair, and administration.....projects reporting...	5	NA	NA	NA	NA
.....dollars...	38,600	112,530	NA	NA	NA
STATUS ON CENSUS DATE					
Capital investment.....dollars...	NA	NA	1,241,300	1,265,276	582,183
Physical works:					
Open ditches.....length, miles...	NA	NA	459.9	423.0	262.7
Tile drains.....length, miles...	NA	NA	...	150.0	101.5
Levees and dikes.....length, miles...	NA	NA	...	11.0	...
Pumping units.....number of units...	NA	...	...	...	NA

NA Not available.

¹Not fully comparable. See text.²Cost of new works for lands not previously drained.

State Table 2.—DRAINAGE

	Size of project (Based on area of agricultural land in project)	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
			Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
					Projects reporting	Acres	Projects reporting	Acres
1	All projects.....	123	353,916	31,700	44	229,279	88	124,637
2	500 to 999 acres.....	69	44,128	850	19	11,783	56	32,345
3	1,000 to 1,999 acres.....	30	35,548	1,000	9	10,424	21	25,124
4	2,000 to 4,999 acres.....	10	30,685	7,000	5	15,618	7	15,087
5	5,000 to 9,999 acres.....	6	47,249	7,000	4	26,988	3	20,261
6	10,000 to 19,999 acres.....	4	51,682	...	4	51,682	...	...
7	20,000 to 49,999 acres.....	4	144,624	15,850	3	112,784	1	31,840
8	50,000 to 99,999 acres.....	...	...	...	...	...	...	...
9	100,000 or more acres.....	...	...	...	...	...	...	...

State Table 3.—DRAINAGE PROJECTS, 1960,

	Type of organization	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
			Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
					Projects reporting	Acres	Projects reporting	Acres
1	All projects.....	123	353,916	31,700	44	229,279	88	124,637
2	Drains owned by one landowner.....	59	88,203	...	24	53,868	43	34,335
3	Cooperative or mutual drains.....	52	97,212	31,700	8	6,910	45	90,302
4	Legally organized public drains.....	12	168,501	...	12	168,501	...	...

State Table 4.—DRAINAGE PROJECTS, 1960,

	Year of organization	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
			Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
					Projects reporting	Acres	Projects reporting	Acres
1	All projects.....	123	353,916	31,700	44	229,279	88	124,637
2	1950-1959.....	82	119,612	31,700	3	1,800	81	117,812
3	Prior to 1950.....	41	234,304	...	41	227,479	7	6,825

PROJECTS, 1960, BY SIZE

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959									
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other projects reporting	
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number		
95	824,238	95	785,638	93	551.2	10	43.5	3	10.4	1	1	...	
59	329,794	59	302,194	58	280.0	2	1.6	2	8.4	1	1	...	
25	170,500	25	170,500	24	146.7	4	12.0	1	2.0	...	...	...
7	130,718	7	128,718	7	70.0	2	20.2	...	...	...	...	...
3	67,531	3	66,531	3	20.9	1	4.1	...	...	...	...	...
...	
1	125,695	1	117,695	1	33.6	1	5.6	...	...	...	...	...
...	
...	

BY TYPE OF ORGANIZATION

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959									
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting	
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number		
95	824,238	95	785,638	93	551.2	10	43.5	3	10.4	1	1	...	1
47	304,284	47	274,684	46	299.2	2	2.2	3	10.4	1	1	...	2
48	519,954	48	510,954	47	252.0	8	41.3	...	...	...	...	...	3
...	...	...	...	...	...	...	...	...	...	...	...	...	4

BY YEAR OF ORGANIZATION

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959								
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	
95	824,238	95	785,638	93	551.2	10	43.5	3	10.4	1	1	...
79	752,626	79	721,626	80	510.8	9	38.4	3	10.4	1	1	...
16	71,612	16	64,012	13	40.4	1	5.1	...	...	...	...	...

DRAINAGE OF AGRICULTURAL LANDS

County Table 1. --DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

Item and Census year		The State	Beaufort	Berkeley	Calhoun	Charleston	Clarendon	Colleton	Darlington
AREA									
1	Approximate land area.....acres 1960...	19,374,080	376,320	704,000	241,280	604,800	382,720	670,720	348,800
2	Land in farms.....acres 1950...	9,149,492	105,230	160,735	162,943	116,385	232,705	326,447	254,113
3	Drainage projects.....number 1960...	123	2	2	2	10	5	1	7
4	.....1950...	45	1	1	...	...	3	1	2
5	Total area in drainage projects ¹.....acres served 1960...	339,966	1,175	1,050	1,175	8,200	7,987	900	22,264
6	.....1950...	249,011	200	8,700	...	...	6,765	5,389	18,549
7	Area not used for agriculture or not drained.....acres served 1960...	1,900	...	...	...	...	...	...	...
8	Net area drained and used for agriculture.....acres served 1960...	338,066	1,175	1,050	1,175	8,200	7,987	900	22,264
9	Drainage established before 1950.....acres served 1960...	229,279	350	...	...	...	6,765	...	18,549
10	Area added, 1950-1959.....acres served 1960...	108,787	825	1,050	1,175	8,200	1,222	900	3,715
11	Area served by two or more projects.....acres served 1960...	15,850	...	...	...	...	...	...	...
PROJECTS, 1960, BY TYPE OF ORGANIZATION									
12	Drains owned by one landowner.....number of projects...	59	2	1	...	9	1	1	1
13	.....acres served ² ...	88,203	1,175	500	...	7,650	680	900	1,145
14	Cooperative or mutual drains.....number of projects...	52	...	1	2	1	1	...	4
15	.....acres served ² ...	97,212	...	550	1,175	550	542	...	3,020
16	Legally organized public drains.....number of projects...	12	...	...	...	...	3	...	2
17	.....acres served ² ...	168,501	...	...	...	...	6,765	...	18,099
PROJECTS, 1960, BY YEAR STARTED									
18	1950-1959.....number of projects...	82	1	1	2	10	2	1	5
19	.....acres served ² ...	119,612	650	550	1,175	8,200	1,222	900	4,165
20	Prior to 1950.....number of projects...	41	1	1	...	...	3	...	2
21	.....acres served ² ...	234,304	525	500	...	...	6,765	...	18,099
DRAINAGE OPERATIONS, 1950-1959 ³									
22	Cost of drainage works and services.....projects reporting...	95	2	(4)	(4)	10	2	(4)	5
23	.....dollars...	824,238	9,208	(4)	(4)	104,961	5,073	(4)	22,850
24	New drainage works constructed, enlarged, or installed.....projects reporting...	95	2	(4)	(4)	10	2	(4)	5
25	.....dollars...	785,638	3,608	(4)	(4)	104,961	5,073	(4)	22,850
26	Open ditches.....projects reporting...	93	2	(4)	(4)	9	2	(4)	5
27	.....length, miles...	551.2	5.9	(4)	(4)	171.0	3.7	(4)	12.7
28	Tile or covered drains.....projects reporting...	10	...	...	...	...	...	...	1
29	.....length, miles...	43.5	...	...	...	...	...	...	1.8
30	Levees or dikes.....projects reporting...	3	...	...	...	1	...	...	...
31	.....length, miles...	10.4	...	...	...	6.0	...	...	...
32	Pumps.....projects reporting...	1	...	...	...	...	...	...	...
33	.....number of pumps...	1	...	...	...	...	...	...	...
34	Other (see text).....projects reporting...	...	...	...	...	...	...	...	...
35	Cost of maintenance, operation, repair, and administration.....projects reporting...	5	1	...	...	...	...	...	...
36	.....dollars...	38,600	5,600	...	...	...	...	...	...

¹Land served by two or more projects counted only once.²Acres served by two projects are included for each project. See text.³Includes projects taken over by another project prior to 1960. See text.⁴Included in State total only.

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

Item and Census year	Dillon	Dorchester	Florence	Georgetown	Hampton	Horry	Jasper	Kershaw
AREA								
1 Approximate land area.....acres 1960...	260,480	364,160	515,200	520,320	359,680	737,280	423,680	503,040
2 Land in farms.....acres 1959...	189,432	128,167	354,668	89,465	199,067	361,341	113,682	205,548
3 Drainage projects.....number 1960...	5	7	9	2	17	18	4	2
4 1950....	1	7	4	...	5	3	2	...
5 Total area in drainage projects ¹.....acres served 1960...	18,373	5,209	35,873	3,800	16,800	41,609	31,000	1,500
6 1950....	15,983	5,034	29,093	...	3,875	2,164	29,700	...
7 Area not used for agriculture or not drained.....acres served 1960...	...	...	...	...	...	...	...	...
8 Net area drained and used for agriculture.....acres served 1960...	18,373	5,209	35,873	3,800	16,800	41,609	31,000	1,500
9 Drainage established before 1950.....acres served 1960...	15,983	5,034	29,093	...	4,125	2,164	29,700	...
10 Area added, 1950-1959.....acres served 1960...	2,390	175	6,780	3,800	12,675	39,445	1,300	1,500
11 Area served by two or more projects.....acres served 1960...	...	...	...	...	...	15,850	...	...
PROJECTS, 1960, BY TYPE OF ORGANIZATION								
12 Drains owned by one landowner.....number of projects...	...	7	1	...	15	3	4	2
13 acres served ²...	...	5,209	1,200	...	13,500	2,394	31,000	1,500
14 Cooperative or mutual drains.....number of projects...	4	...	4	2	2	15	...	...
15 acres served ² ...	2,390	...	6,780	3,800	3,200	55,065	...	...
16 Legally organized public drains.....number of projects...	1	...	4	...	...	...	...	...
17 acres served ² ...	15,983	...	27,893	...	...	...	...	...
PROJECTS, 1960, BY YEAR STARTED								
18 1950-1959.....number of projects...	4	...	5	2	11	15	2	2
19 acres served ² ...	2,390	...	7,980	3,800	8,650	55,295	1,000	1,500
20 Prior to 1950.....number of projects...	1	7	4	...	6	3	2	...
21 acres served ² ...	15,983	5,209	27,893	...	8,150	2,164	30,000	...
DRAINAGE OPERATIONS, 1950-1959 ³								
22 Cost of drainage works and services.....projects reporting...	4	2	5	2	14	17	3	(⁴)
23 dollars...	10,010	1,603	31,574	13,500	41,013	346,535	32,629	(⁴)
24 New drainage works constructed, enlarged, or installed.....projects reporting...	4	2	5	2	14	17	3	(⁴)
25 dollars...	10,010	1,603	31,574	13,500	41,013	337,535	10,629	(⁴)
26 Open ditches.....projects reporting...	4	2	5	2	14	17	3	(⁴)
27 length, miles...	5.9	1.5	15.3	13.0	31.1	153.0	7.3	(⁴)
28 Tills or covered drains.....projects reporting...	...	...	...	...	...	7	...	...
29 length, miles...	...	...	...	...	...	36.2	...	...
30 Levees or dikes.....projects reporting...	...	...	...	...	...	...	1	...
31 length, miles...	...	...	...	...	...	...	2.4	...
32 Pumps.....projects reporting...	...	...	...	...	...	...	1	...
33 number of pumps...	...	...	...	...	...	...	1	...
34 Other (see text).....projects reporting...	...	...	...	...	...	...	...	...
35 Cost of maintenance, operation, repair, and administration.....projects reporting...	...	...	...	...	...	2	1	...
36 dollars...	...	...	...	...	...	9,000	22,000	...

¹Land served by two or more projects counted only once.²Acres served by two projects are included for each project. See text.³Includes projects taken over by another project prior to 1960. See text.⁴Included in State total only.

DRAINAGE OF AGRICULTURAL LANDS

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

Item and Census year		Lee	Marion	Marlboro	Orangeburg	Sumter	Williamsburg	All other counties ¹
AREA								
1	Approximate land area.....acres 1980...	261,760	307,200	308,480	707,200	425,600	595,840	812,800
2	Land in farms.....acres 1959...	190,608	153,298	174,814	456,670	242,834	381,966	431,147
3	Drainage projects..... number 1960...	2	12	8	8	5	7	...
4	..... 1950...	3	6	3	4	1	3	2
5	Total area in drainage projects ² acres served 1960...	15,092	12,806	6,914	52,483	4,300	51,456	...
6	..... 1950...	15,092	9,706	3,614	46,848	1,200	42,456	4,443
7	Area not used for agriculture or not drained..... acres served 1960...	1,400	...	...	500	...	...	...
8	Net area drained and used for agriculture..... acres served 1960...	13,692	12,806	6,914	51,983	4,300	51,456	...
9	Drainage established before 1950..... acres served 1960...	13,692	9,706	3,614	46,848	1,200	42,456	...
10	Area added, 1950-1959..... acres served 1960...	...	3,100	3,300	5,135	3,100	9,000	...
11	Area served by two or more projects..... acres served 1960...	...	...	...	...	...	...	...
PROJECTS, 1960, BY TYPE OF ORGANIZATION								
12	Drains owned by one landowner..... number of projects...	...	5	4	3	3	1	...
13	..... acres served ³...	...	7,160	3,550	4,740	3,000	2,800	...
14	Cooperative or mutual drains..... number of projects...	1	6	3	3	2	4	...
15	..... acres served ³ ...	580	4,360	2,250	3,650	1,300	8,000	...
16	Legally organized public drains..... number of projects...	1	1	1	2	...	2	...
17	..... acres served ³ ...	13,112	1,286	1,114	43,593	...	40,656	...
PROJECTS, 1960, BY YEAR STARTED								
18	1950-1959..... number of projects...	...	6	5	4	4	4	...
19	..... acres served ³...	...	3,100	3,300	4,635	3,100	8,000	...
20	Prior to 1950..... number of projects...	2	6	3	4	1	3	...
21	..... acres served ³ ...	13,692	9,706	3,614	47,348	1,200	43,456	...
DRAINAGE OPERATIONS, 1950-1959 ⁴								
22	Cost of drainage works and services..... projects reporting...	...	8	7	5	4	5	...
23	..... dollars...	...	23,905	55,308	24,278	24,200	52,670	...
24	New drainage works constructed, enlarged, or installed..... projects reporting...	...	8	7	5	4	5	...
25	..... dollars...	...	23,905	55,308	24,278	24,200	50,670	...
26	Open ditches..... projects reporting...	...	8	6	5	4	5	...
27	..... length, miles...	...	19.1	28.9	21.9	18.3	20.0	...
28	Tile or covered drains..... projects reporting...	...	...	2	...	...	...	...
29	..... length, miles...	...	...	5.5	...	...	...	...
30	Levees or dikes..... projects reporting...	...	...	...	...	1	...	...
31	..... length, miles...	...	...	...	...	2.0	...	...
32	Pumps..... projects reporting...	...	...	...	...	...	...	...
33	..... number of pumps...	...	...	...	...	...	...	...
34	Other (see text)..... projects reporting...	...	...	...	...	...	...	...
35	Cost of maintenance, operation, repair, and administration..... projects reporting...	...	...	...	...	...	1	...
36	..... dollars...	...	...	...	...	...	2,000	...

¹Includes Chester and York counties.²Land served by two or more projects counted only once.³Acres served by two projects are included for each project. See text.⁴Includes projects taken over by another project prior to 1960. See text.

State Table 1.—DRAINAGE PROJECTS—NUMBER, AREA, COST, AND WORKS, 1920 TO 1960

[See text for comparability of data.]

Item	1960 Census	1950 Census	1940 Census	1930 Census	1920 Census
AREA					
Approximate land area.....acres...	48,881,920	48,983,040	48,983,040	49,195,520	49,195,520
Land in farms.....acres...	44,850,666	44,785,529	39,473,584	36,470,083	34,636,491
Drainage projects.....number...	41	34	¹ 202	NA	NA
Total area in drainage projects.....acres served...	658,580	707,263	676,472	697,758	222,062
Area not used for agriculture or not drained.....acres served...	...	NA	NA	NA	NA
Net area drained and used for agriculture.....acres served...	658,580	NA	² 647,173	² 684,746	NA
Drainage established 10 years or more before Census date.....acres served...	647,251	NA	NA	NA	NA
Drainage established within 10 years of Census date.....acres served...	11,329	NA	NA	NA	NA
Area served by two or more projects.....acres served...	2,010	NA	35,100	...	12,139
PROJECTS BY TYPE OF ORGANIZATION					
Drains owned by one landowner.....number of projects...	...	(³)	NA	NA	NA
acres served...	...	(³)	(³)	² 2,000	...
Cooperative or mutual drains.....number of projects...	8	(³)	...	...	...
acres served...	11,059	(³)	...	...	...
Legally organized public drains.....number of projects...	33	³ 32	NA	NA	NA
acres served...	649,531	³ 706,973	³ 603,966	³ 621,258	222,062
PROJECTS BY YEAR STARTED					
Started 10 years or more before Census date.....number of projects...	33	NA	NA	NA	NA
acres served...	649,531	NA	676,472	436,665	59,446
Started within 10 years of Census date.....number of projects...	8	NA	...	NA	NA
acres served...	11,059	NA	...	261,093	162,616
OPERATIONS, 10-YEAR PERIOD PRECEDING CENSUS DATE					
Cost of drainage works and services.....projects reporting...	22	17	NA	NA	NA
dollars...	298,591	483,275	NA	NA	NA
New drainage works constructed, enlarged, or installed.....projects reporting...	11	...	NA	NA	NA
cost, dollars...	110,334	...	NA	NA	NA
Open ditches.....projects reporting...	11	...	NA	NA	NA
length, miles...	38.4	...	NA	NA	NA
Tile or covered drains.....projects reporting...	...	...	NA	NA	NA
length, miles...	...	...	NA	NA	NA
Levees or dikes.....projects reporting...	...	...	NA	NA	NA
length, miles...	...	...	NA	NA	NA
Pumps.....projects reporting...	...	NA	NA	NA	NA
number of pumps...	...	NA	NA	NA	NA
Other (see text).....projects reporting...	...	NA	NA	NA	NA
Cost of maintenance, operation, repair, and administration.....projects reporting...	15	17	NA	NA	NA
dollars...	188,297	483,275	NA	NA	NA
STATUS ON CENSUS DATE					
Capital investment.....dollars...	NA	NA	5,078,771	4,534,768	1,461,063
Physical works:					
Open ditches.....length, miles...	NA	NA	840.7	854.4	237.8
Tile drains.....length, miles...	NA	NA	335.8	315.3	179.3
Levees and dikes.....length, miles...	NA	NA	7.4	...	2.4
Pumping units.....number of units...	NA	NA	...	...	...

NA Not available.

¹In 1940 each county drain was counted as a separate project. See text.²Not fully comparable. See text.³All projects in 1950 included with county drains, except 2 counties and 290 acres from Census of Irrigation; 1940 figures exclude 72,506 acres in "irrigation enterprises"; and 1930 figures exclude 74,500 acres in "irrigation enterprises." See text.

State Table 2.—DRAINAGE

	Size of project (Based on area of agricultural land in project)	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
			Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
					Projects reporting	Acres	Projects reporting	Acres
1	All projects.....	41	660,590	4,020	35	649,261	8	11,329
2	500 to 999 acres.....	4	2,820	...	3	2,120	1	700
3	1,000 to 1,999 acres.....	6	7,979	2,010	2	2,010	5	5,969
4	2,000 to 4,999 acres.....	7	21,786	...	6	19,406	1	2,380
5	5,000 to 9,999 acres.....	9	64,609	1,490	9	64,609	...	...
6	10,000 to 19,999 acres.....	6	101,096	520	6	101,096	...	...
7	20,000 to 49,999 acres.....	5	152,654	...	5	152,654	...	...
8	50,000 to 99,999 acres.....	3	197,579	...	3	195,299	1	2,280
9	100,000 or more acres.....	1	112,067	...	1	112,067	...	...

State Table 3.—DRAINAGE PROJECTS, 1960,

	Type of organization	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
			Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
					Projects reporting	Acres	Projects reporting	Acres
1	All projects.....	41	660,590	4,020	35	649,261	8	11,329
2	Drains owned by one landowner.....	...	...	...	...	...	...	...
3	Cooperative or mutual drains.....	8	11,059	2,010	2	2,010	7	9,049
4	Legally organized public drains.....	33	649,531	2,010	33	647,251	1	2,280

State Table 4.—DRAINAGE PROJECTS, 1960,

	Year of organization	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
			Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
					Projects reporting	Acres	Projects reporting	Acres
1	All projects.....	41	660,590	4,020	35	649,261	8	11,329
2	1950-1959.....	8	11,059	2,010	2	2,010	7	9,049
3	Prior to 1950.....	33	649,531	2,010	33	647,251	1	2,280

PROJECTS, 1960, BY SIZE

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959								
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	
22	298,591	11	110,334	11	38.4	...	...	...	...	...	...	...
2	1,377	1	900	1	0.5	...	...	...	...	...	...	...
6	18,115	6	17,145	6	11.7	...	...	...	...	...	...	...
1	7,000	1	7,000	1	3.8	...	...	...	...	...	...	...
1	2,557	...	...	...	...	...	...	...	...	...	...	...
3	75,299	...	...	...	...	...	...	...	...	...	...	...
5	66,210	1	10,137	1	3.6	...	...	...	...	...	...	...
3	118,105	2	75,152	2	18.8	...	...	...	...	...	...	...
1	9,928	...	...	...	...	...	...	...	...	...	...	...

BY TYPE OF ORGANIZATION

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959								
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	
22	298,591	11	110,334	11	38.4	...	...	...	...	...	...	...
...
8	26,015	8	25,045	8	16.0	...	...	...	...	...	...	...
14	272,576	3	85,289	3	22.4	...	...	...	...	...	...	...

BY YEAR OF ORGANIZATION

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959								
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	
22	298,591	11	110,334	11	38.4	...	...	...	...	...	...	...
8	26,015	8	25,045	8	16.0	...	...	...	...	...	...	...
14	272,576	3	85,289	3	22.4	...	...	...	...	...	...	...

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

Item and Census year		The State	Beadle	Bon Homme	Brookings	Brown	Charles Mix	Clark	Clay
AREA									
1	Approximate land area.....acres 1960...	48,881,920	807,040	361,600	512,640	1,073,280	706,560	624,640	257,920
2	Land in farms.....acres 1959...	44,850,666	771,745	352,009	499,797	1,077,193	686,669	587,936	248,788
3	Drainage projects..... number 1960...	41	1	1	3	1	1	1	2
4	1950...	34	1	1	1	1	1	1	1
5	Total area in drainage projects ² acres served 1960...	658,580	8,192	3,277	9,580	112,067	800	6,291	62,459
6	1950...	707,263	8,192	3,277	7,200	112,067	800	6,291	59,050
7	Area not used for agriculture or not drained..... acres served 1960...	...	...	...	...	...	...	...	...
8	Net area drained and used for agriculture..... acres served 1960...	658,580	8,192	3,277	9,580	112,067	800	6,291	62,459
9	Drainage established before 1950..... acres served 1960...	647,251	8,192	3,277	7,200	112,067	800	6,291	59,050
10	Area added, 1950-1959..... acres served 1960...	11,329	...	...	2,380	...	...	...	3,409
11	Area served by two or more projects..... acres served 1960...	2,010	...	...	1,490	...	...	...	...
PROJECTS, 1960, BY TYPE OF ORGANIZATION									
12	Drains owned by one landowner..... number of projects...	...	...	...	...	...	...	...	...
13	acres served ³...	...	...	...	...	...	...	...	...
14	Cooperative or mutual drains..... number of projects...	8	...	...	2	...	...	...	1
15	acres served ³ ...	11,059	...	...	3,870	...	...	...	1,129
16	Legally organized public drains..... number of projects...	33	1	1	1	1	1	1	1
17	acres served ³ ...	649,531	8,192	3,277	7,200	112,067	800	6,291	61,330
PROJECTS, 1960, BY YEAR STARTED									
18	1950-1959..... number of projects...	8	...	...	2	...	...	...	1
19	acres served ³ ...	11,059	...	...	3,870	...	...	...	1,129
20	Prior to 1950..... number of projects...	33	1	1	1	1	1	1	1
21	acres served ³ ...	649,531	8,192	3,277	7,200	112,067	800	6,291	61,330
DRAINAGE OPERATIONS, 1950-1959 ⁴									
22	Cost of drainage works and services..... projects reporting...	22	...	...	2	1	...	...	2
23	dollars...	298,591	...	...	8,195	9,928	...	...	86,542
24	New drainage works constructed, enlarged, or installed..... projects reporting...	11	...	...	2	...	...	...	2
25	dollars...	110,334	...	...	7,225	...	...	...	60,465
26	Open ditches..... projects reporting...	11	...	...	2	...	...	...	2
27	length, miles...	38.4	...	...	5.8	...	...	...	14.4
28	Tile or covered drains..... projects reporting...	...	...	...	...	...	...	...	...
29	length, miles...	...	...	...	...	...	...	...	...
30	Levees or dikes..... projects reporting...	...	...	...	...	...	...	...	...
31	length, miles...	...	...	...	...	...	...	...	...
32	Pumps..... projects reporting...	...	...	...	...	...	...	...	...
33	number of pumps...	...	...	...	...	...	...	...	...
34	Other (see text)..... projects reporting...	...	...	...	...	...	...	...	...
35	Cost of maintenance, operation, repair, and administration..... projects reporting...	15	...	...	1	1	...	...	1
36	dollars...	188,257	...	...	970	9,928	...	...	26,077

¹The excess of farm acreage over approximate land area is due to the fact that the entire acreage of a farm is tabulated as in the county in which the headquarters is located, even though a part of the farm may be situated in an adjoining county.

²Land served by two or more projects counted only once.

³Acres served by two projects are included for each project. See text.

⁴Includes projects taken over by another project prior to 1960. See text.

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

Item and Census year	Codington	Davidson	Day	Douglas	Hemlin	Hanson	Hatchinson	Jereuld
AREA								
1 Approximate land area.....acres 1960...	442,240	276,480	678,400	1,278,400	332,800	275,840	520,960	337,920
2 Land in farms.....acres 1959...	415,574	272,295	638,207	1,284,629	311,092	259,885	518,505	317,266
3 Drainage projects.....number 1960...	1	1	1	1	1	1	1	1
4 1950...	1	1	1	1	1	1	1	1
5 Total area in drainage projects ².....acres served 1960...	2,408	15,474	840	19,640	13,599	8,510	8,760	480
6 1950...	2,408	15,474	3,080	19,640	13,599	8,510	8,760	480
7 Area not used for agriculture or not drained.....acres served 1960...	...	...	...	...	...	...	...	...
8 Net area drained and used for agriculture.....acres served 1960...	2,408	15,474	840	19,640	13,599	8,510	8,760	480
9 Drainage established before 1950.....acres served 1960...	2,408	15,474	840	19,640	13,599	8,510	8,760	480
10 Area added, 1950-1959.....acres served 1960...	...	...	...	...	...	...	...	...
11 Area served by two or more projects.....acres served 1960...	...	...	...	...	...	...	...	...
PROJECTS, 1960, BY TYPE OF ORGANIZATION								
12 Drains owned by one landowner.....number of projects...	...	...	...	...	...	...	...	...
13 acres served ³...	...	...	...	...	...	...	...	...
14 Cooperative or mutual drains.....number of projects...	...	...	...	...	...	...	...	...
15 acres served ³...	...	...	...	...	...	...	...	...
16 Legally organized public drains.....number of projects...	1	1	1	1	1	1	1	1
17 acres served ³ ...	2,408	15,474	840	19,640	13,599	8,510	8,760	480
PROJECTS, 1960, BY YEAR STARTED								
18 1950-1959.....number of projects...	...	...	...	...	...	...	...	...
19 acres served ³...	...	...	...	...	...	...	...	...
20 Prior to 1960.....number of projects...	1	1	1	1	1	1	1	1
21 acres served ³ ...	2,408	15,474	840	19,640	13,599	8,510	8,760	480
DRAINAGE OPERATIONS, 1950-1959 ⁴								
22 Cost of drainage works and services.....projects reporting...	...	...	1	1	1	...	...	...
23 dollars...	...	...	477	763	764	...	...	...
24 New drainage works constructed, enlarged, or installed.....projects reporting...	...	...	...	...	...	...	...	...
25 dollars...	...	...	...	...	...	...	...	...
26 Open ditches.....projects reporting...	...	...	...	...	...	...	...	...
27 length, miles...	...	...	...	...	...	...	...	...
28 Tile or covered drains.....projects reporting...	...	...	...	...	...	...	...	...
29 length, miles...	...	...	...	...	...	...	...	...
30 Levees or dikes.....projects reporting...	...	...	...	...	...	...	...	...
31 length, miles...	...	...	...	...	...	...	...	...
32 Pumps.....projects reporting...	...	...	...	...	...	...	...	...
33 number of pumps...	...	...	...	...	...	...	...	...
34 Other (see text).....projects reporting...	...	...	...	...	...	...	...	...
35 Cost of maintenance, operation, repair, and administration.....projects reporting...	...	...	1	1	1	...	...	...
36 dollars...	...	...	477	763	764	...	...	...

¹The excess of farm acreage over approximate land area is due to the fact that the entire acreage of a farm is tabulated as in the county in which the headquarters is located, even though a part of the farm may be situated in an adjoining county.

²Land served by two or more projects counted only once.

³Acres served by two projects are included for each project. See text.

⁴Includes projects taken over by another project prior to 1960. See text.

DRAINAGE OF AGRICULTURAL LANDS

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data.]

Item and Census year		Kingsbury	Lake	Lincoln	Lyman	McCook	Marshall	Miner	Minnehaha
AREA									
1	Approximate land area.....acres 1960...	524,160	365,440	368,640	1,066,880	369,280	560,000	365,440	521,600
2	Land in farms.....acres 1959...	512,555	344,785	354,988	937,075	363,080	534,185	346,258	491,584
3	Drainage projects.....number 1960...	1	1	1	1	1	2	1	2
4	1950...	1	1	1	1	1	1	1	1
5	Total area in drainage projects ¹.....acres served 1960...	9,160	25,805	33,971	4,320	2,080	91,392	5,200	39,732
6	1950...	9,160	25,805	33,971	4,320	2,080	91,392	5,200	42,172
7	Area not used for agriculture or not drained.....acres served 1960...	...	...	...	...	...	...	...	...
8	Net area drained and used for agriculture.....acres served 1960...	9,160	25,805	33,971	4,320	2,080	91,392	5,200	39,732
9	Drainage established before 1950.....acres served 1960...	9,160	25,805	33,971	4,320	2,080	91,392	5,200	39,732
10	Area added, 1950-1959.....acres served 1960...	...	...	...	...	...	...	...	...
11	Area served by two or more projects.....acres served 1960...	...	...	...	...	...	...	...	...
PROJECTS, 1960, BY TYPE OF ORGANIZATION									
12	Drains owned by one landowner.....number of projects...	...	...	...	...	...	...	...	...
13	acres served ²...	...	...	...	...	...	...	...	...
14	Cooperative or mutual drains.....number of projects...	...	...	...	...	...	...	...	...
15	acres served ²...	...	...	...	...	...	...	...	...
16	Legally organized public drains.....number of projects...	1	1	1	1	1	2	1	2
17	acres served ² ...	9,160	25,805	33,971	4,320	2,080	91,392	5,200	39,732
PROJECTS, 1960, BY YEAR STARTED									
18	1950-1959.....number of projects...	...	...	...	...	...	...	...	...
19	acres served ²...	...	...	...	...	...	...	...	...
20	Prior to 1950.....number of projects...	1	1	1	1	1	2	1	2
21	acres served ² ...	9,160	25,805	33,971	4,320	2,080	91,392	5,200	39,732
DRAINAGE OPERATIONS, 1950-1959 ³									
22	Cost of drainage works and services.....projects reporting...	1	1	1	...	...	1	...	1
23	dollars...	2,597	28,847	10,387	...	...	9,110	...	18,267
24	New drainage works constructed, enlarged, or installed.....projects reporting...	...	...	1	...	...	...	...	...
25	dollars...	...	...	10,137	...	...	...	...	...
26	Open ditches.....projects reporting...	...	...	1	...	...	...	...	...
27	length, miles...	...	...	3.6	...	...	...	...	...
28	Tile or covered drains.....projects reporting...	...	...	...	...	...	...	...	...
29	length, miles...	...	...	...	...	...	...	...	...
30	Levees or dikes.....projects reporting...	...	...	...	...	...	...	...	...
31	length, miles...	...	...	...	...	...	...	...	...
32	Pumps.....projects reporting...	...	...	...	...	...	...	...	...
33	number of pumps...	...	...	...	...	...	...	...	...
34	Other (see text).....projects reporting...	...	...	...	...	...	...	...	...
35	Cost of maintenance, operation, repair, and administration.....projects reporting...	1	1	1	...	...	1	...	1
36	dollars...	2,597	28,847	250	...	...	9,110	...	18,267

¹Land served by two or more projects counted only once.²Acres served by two projects are included for each project. See text.³Includes projects taken over by another project prior to 1960. See text.

County Table 1.—DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

Item and Census year	Moody	Roberts	Sanborn	Spink	Turner	Union	Yankton	All other counties ¹
AREA								
1 Approximate land area.....acres 1960...	334,720	711,040	365,440	963,840	391,040	290,560	333,440	6,323,200
2 Land in farms.....acres 1959.....	323,323	671,761	339,791	921,614	384,851	275,265	307,880	5,437,235
3 Drainage projects..... number 1960.....	1	2	1	2	2	4	1	...
4 1950.....	1	1	1	1	1	1	1	4
5 Total area in drainage projects ² acres served 1960.....	4,681	8,576	42,880	16,629	52,017	20,960	28,800	...
6 1950.....	4,681	8,576	42,880	15,929	50,217	17,920	28,800	55,332
7 Area not used for agriculture or not drained..... acres served 1960.....	...	...	...	...	...	...	...	...
8 Net area drained and used for agriculture..... acres served 1960.....	4,681	8,576	42,880	16,629	52,017	20,960	28,800	...
9 Drainage established before 1950..... acres served 1960.....	4,681	8,576	42,880	15,929	50,217	17,920	28,800	...
10 Area added, 1950-1959..... acres served 1960.....	...	...	...	700	1,800	3,040	...	...
11 Area served by two or more projects..... acres served 1960.....	...	...	...	...	...	520	...	...
PROJECTS, 1960, BY TYPE OF ORGANIZATION								
12 Drains owned by one landowner..... number of projects...	...	...	...	...	...	...	...	...
13 acres served ³...	...	...	...	...	...	...	...	...
14 Cooperative or mutual drains..... number of projects...	...	...	...	1	1	3	...	...
15 acres served ³...	...	...	...	700	1,800	3,560	...	...
16 Legally organized public drains..... number of projects...	1	2	1	1	1	1	1	...
17 acres served ³ ...	4,681	8,576	42,880	15,929	50,217	17,920	28,800	...
PROJECTS, 1960, BY YEAR STARTED								
18 1950-1959..... number of projects...	...	...	...	1	1	3	...	...
19 acres served ³...	...	...	...	700	1,800	3,560	...	...
20 Prior to 1950..... number of projects...	1	2	1	1	1	1	1	...
21 acres served ³ ...	4,681	8,576	42,880	15,929	50,217	17,920	28,800	...
DRAINAGE OPERATIONS, 1950-1959 ⁴								
22 Cost of drainage works and services.....projects reporting...	...	...	1	1	2	4	1	...
23 dollars...	...	...	244	900	29,083	84,062	8,465	...
24 New drainage works constructed, enlarged, or installed.....projects reporting...	...	...	...	1	2	3	...	...
25 dollars...	...	...	...	900	21,317	10,290	...	...
26 Open ditches.....projects reporting...	...	...	...	1	2	3	...	...
27 length, miles...	...	...	...	0.5	7.5	6.6	...	...
28 Tile or covered drains.....projects reporting...	...	...	...	...	...	...	...	...
29 length, miles...	...	...	...	...	...	...	...	...
30 Levees or dikes.....projects reporting...	...	...	...	...	...	...	...	...
31 length, miles...	...	...	...	...	...	...	...	...
32 Pumps.....projects reporting...	...	...	...	...	...	...	...	...
33 number of pumps...	...	...	...	...	...	...	...	...
34 Other (see text).....projects reporting...	...	...	...	...	...	...	...	...
35 Cost of maintenance, operation, repair, and administration.....projects reporting...	...	...	1	...	1	1	1	...
36 dollars...	...	...	244	...	7,766	73,772	8,465	...

¹Includes Butte, Meade, Pennington, and Todd counties.²Land served by two or more projects counted only once.³Acres served by two projects are included for each project. See text.⁴Includes projects taken over by another project prior to 1960. See text.



State Table 1.—DRAINAGE PROJECTS—NUMBER, AREA, COST, AND WORKS, 1920 TO 1960

[See text for comparability of data]

Item	1960 Census	1950 Census	1940 Census	1930 Census	1920 Census
AREA					
Approximate land area.....acres...	26,727,680	26,750,080	26,855,040	26,679,680	26,679,680
Land in farms.....acres...	16,080,285	18,534,380	18,492,898	18,003,241	19,510,856
Drainage projects.....number...	179	151	155	NA	NA
Total area in drainage projects.....acres served...	730,855	615,838	601,592	593,560	363,671
Area not used for agriculture or not drained.....acres served...	139,976	NA	NA	NA	NA
Net area drained and used for agriculture.....acres served...	590,879	NA	¹ 579,283	¹ 413,791	NA
Drainage established 10 years or more before Census date.....acres served...	492,825	NA	NA	NA	NA
Drainage established within 10 years of Census date.....acres served...	98,054	NA	NA	NA	NA
Area served by two or more projects.....acres served...	6,527	5,148	16,580	5,832	...
PROJECTS BY TYPE OF ORGANIZATION					
Drains owned by one landowner.....number of projects...	8	2	NA	NA	...
acres served...	8,433	2,175	1,200	600	...
Cooperative or mutual drains.....number of projects...	37	20	...	...	...
acres served...	39,293	21,623	...	...	...
Legally organized public drains.....number of projects...	134	129	NA	NA	NA
acres served...	549,680	592,040	600,392	592,960	363,671
PROJECTS BY YEAR STARTED					
Started 10 years or more before Census date.....number of projects...	154	132	NA	NA	...
acres served...	467,976	593,248	573,432	486,830	...
Started within 10 years of Census date.....number of projects...	25	19	NA	NA	NA
acres served...	129,430	22,590	28,160	106,730	363,671
OPERATIONS, 10-YEAR PERIOD PRECEDING CENSUS DATE					
Cost of drainage works and services.....projects reporting...	36	26	NA	NA	NA
dollars...	2,136,236	270,623	NA	NA	NA
New drainage works constructed, enlarged, or installed.....projects reporting...	22	² 23	NA	NA	NA
cost, dollars...	1,853,349	² 255,697	NA	NA	NA
Open ditches.....projects reporting...	22	23	NA	NA	NA
length, miles...	134.6	105	NA	NA	NA
Tile or covered drains.....projects reporting...	...	...	NA	NA	NA
length, miles...	...	...	NA	NA	NA
Levees or dikes.....projects reporting...	...	...	NA	NA	NA
length, miles...	...	...	NA	NA	NA
Pumps.....projects reporting...	...	NA	NA	NA	NA
number of pumps...	...	NA	NA	NA	NA
Other (see text).....projects reporting...	...	NA	NA	NA	NA
Cost of maintenance, operation, repair, and administration.....projects reporting...	17	NA	NA	NA	NA
dollars...	282,887	14,926	NA	NA	NA
STATUS ON CENSUS DATE					
Capital investment.....dollars...	NA	NA	6,501,750	6,366,747	2,925,944
Physical works:					
Open ditches.....length, miles...	NA	NA	1,508.0	1,413.0	777.3
Tile drains.....length, miles...	NA	NA	...	...	0.3
Levees and dikes.....length, miles...	NA	NA	30.0	29.8	42.3
Pumping units.....number of units...	NA	...	...	...	...

NA Not available.

¹Not fully comparable. See text.²Cost of new works for lands not previously drained.

State Table 2.—DRAINAGE

Size of project (Based on area of agricultural land in project)	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
		Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
				Projects reporting	Acres	Projects reporting	Acres
1 All projects.....	179	597,406	13,054	164	499,352	18	98,054
2 500 to 999 acres.....	55	38,260	700	44	31,490	11	6,770
3 1,000 to 1,999 acres.....	60	83,789	3,267	58	80,839	3	2,950
4 2,000 to 4,999 acres.....	41	131,220	...	39	126,920	2	4,300
5 5,000 to 9,999 acres.....	11	75,379	500	11	75,379	...	...
6 10,000 to 19,999 acres.....	8	108,569	2,560	8	103,200	1	5,369
7 20,000 to 49,999 acres.....	3	69,189	...	3	69,189	...	...
8 50,000 to 99,999 acres.....	1	91,000	6,027	1	12,335	1	78,665
9 100,000 or more acres.....	...	...	...	...	...	...	...

¹Includes one project taken over by another project prior to 1960. See text.

State Table 3.—DRAINAGE PROJECTS, 1960,

Type of organization	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
		Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
				Projects reporting	Acres	Projects reporting	Acres
1 All projects.....	179	597,406	13,054	164	499,352	18	98,054
2 Drains owned by one landowner.....	8	8,433	...	4	4,533	4	3,900
3 Cooperative or mutual drains.....	37	39,293	3,967	26	29,173	12	10,120
4 Legally organized public drains.....	134	549,680	9,087	134	465,646	2	84,034

State Table 4.—DRAINAGE PROJECTS, 1960,

Year of organization	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
		Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
				Projects reporting	Acres	Projects reporting	Acres
1 All projects.....	179	597,406	13,054	164	499,352	18	98,054
2 1950-1959.....	25	129,430	8,587	10	31,376	18	98,054
3 Prior to 1950.....	154	467,976	4,467	154	467,976	...	...

PROJECTS, 1960, BY SIZE

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959									
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting	
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number		
36	2,136,236	22	1,853,349	22	134.6	...	...	...	...	...	...	...	1
16	94,047	12	68,347	12	26.6	...	...	...	...	...	...	...	2
8	44,700	3	14,000	3	7.0	...	...	...	...	...	...	...	3
7	94,487	3	30,000	3	17.5	...	...	...	...	...	...	...	4
2	37,000	1	8,000	1	6.0	...	...	...	...	...	...	...	5
1	455,942	1	455,942	1	19.7	...	...	...	...	...	...	...	6
...	...	...	...	...	...	...	...	...	...	...	...	...	7
12	1,410,060	12	1,277,060	12	57.8	...	...	...	...	...	...	...	8
...	...	...	...	...	...	...	...	...	...	...	...	...	9

BY TYPE OF ORGANIZATION

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959									
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting	
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number		
36	2,136,236	22	1,853,349	22	134.6	...	...	...	...	...	...	...	1
7	39,187	5	21,000	5	12.5	...	...	...	...	...	...	...	2
19	137,547	12	81,347	12	31.6	...	...	...	...	...	...	...	3
10	1,959,502	5	1,751,002	5	90.5	...	...	...	...	...	...	...	4

BY YEAR OF ORGANIZATION

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959									
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting	
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number		
36	2,136,236	22	1,853,349	22	134.6	...	...	...	...	...	...	...	1
26	2,028,049	21	1,845,349	21	128.6	...	...	...	...	...	...	...	2
10	108,187	1	8,000	1	6.0	...	...	...	...	...	...	...	3

DRAINAGE OF AGRICULTURAL LANDS

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data.]

Item and Census year		The State	Benton	Carroll	Chester	Crockett	Deatur	Dyer	Fayette
AREA									
1	Approximate land area.....acres 1960...	26,727,680	275,200	381,440	182,400	172,160	221,440	337,280	450,560
2	Land in farms.....acres 1959...	16,081,285	104,966	256,344	121,461	158,910	145,865	262,412	375,671
3	Drainage projects.....number 1960...	179	2	15	12	10	6	19	9
4	.....1950...	151	1	15	10	11	2	20	9
5	Total area in drainage projects ¹.....acres served 1960...	730,855	11,231	52,238	13,029	21,006	9,324	158,870	23,002
6	.....1950...	615,838	13,231	52,238	11,899	24,246	711	53,068	23,002
7	Area not used for agriculture or not drained.....acres served 1960...	139,976	6,300	13,000	...	4,050	2,600	41,230	...
8	Net area drained and used for agriculture.....acres served 1960...	590,879	4,931	39,238	13,029	16,956	6,724	117,640	23,002
9	Drainage established before 1960.....acres served 1960...	492,825	4,431	39,238	11,899	16,956	4,724	38,975	23,002
10	Area added, 1950-1959.....acres served 1960...	98,054	500	...	1,130	...	2,000	78,665	...
11	Area served by two or more projects.....acres served 1960...	6,527	...	...	...	...	...	6,027	...
PROJECTS, 1960, BY TYPE OF ORGANIZATION									
12	Drains owned by one landowner.....number of projects...	8	...	...	...	...	1	...	...
13	.....acres served ² ...	8,433	...	...	...	...	2,000	...	...
14	Cooperative or mutual drains.....number of projects...	37	1	...	2	...	...	10	...
15	.....acres served ² ...	39,293	500	...	1,130	...	...	10,856	...
16	Legally organized public drains.....number of projects...	134	1	15	10	10	5	9	9
17	.....acres served ² ...	549,680	4,431	39,238	11,899	16,956	4,724	112,811	23,002
PROJECTS, 1960, BY YEAR STARTED									
18	1950-1959.....number of projects...	25	1	...	2	...	1	2	...
19	.....acres served ² ...	129,430	500	...	1,130	...	2,000	93,560	...
20	Prior to 1950.....number of projects...	154	1	15	10	10	5	17	9
21	.....acres served ² ...	467,976	4,431	39,238	11,899	16,956	4,724	30,107	23,002
DRAINAGE OPERATIONS, 1950-1959 ³									
22	Cost of drainage works and services.....projects reporting...	36	1	...	2	1	(4)	3	...
23	.....dollars...	2,136,236	4,095	...	11,000	8,000	(4)	1,524,101	...
24	New drainage works constructed, enlarged, or installed.....projects reporting...	22	1	...	2	...	(4)	3	...
25	.....dollars...	1,853,349	4,095	...	11,000	...	(4)	1,391,101	...
26	Open ditches.....projects reporting...	22	1	...	2	...	(4)	3	...
27	.....length, miles...	134.6	1.3	...	4.0	...	(4)	63.2	...
28	Tile or covered drains.....projects reporting...	...	...	...	...	...	...	...	...
29	.....length, miles...	...	...	...	...	...	...	...	...
30	Levees or dikes.....projects reporting...	...	...	...	...	...	...	...	...
31	.....length, miles...	...	...	...	...	...	...	...	...
32	Pumps.....projects reporting...	...	...	...	...	...	...	...	...
33	.....number of pumps...	...	...	...	...	...	...	...	...
34	Other (see text).....projects reporting...	...	...	...	...	...	...	...	...
35	Cost of maintenance, operation, repair, and administration.....projects reporting...	17	...	...	...	1	...	1	...
36	.....dollars...	282,887	...	...	...	8,000	...	133,000	...

¹Land served by two or more projects counted only once.²Acres served by two projects are included for each project. See text.³Includes projects taken over by another project prior to 1960. See text.⁴Included in State total only.

County Table 1.-DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

Item and Census year		Gibson	Hardeman	Hardin	Haywood	Henderson	Henry	Humphreys	Lake
AREA									
1	Approximate land area.....acres 1960...	388,480	419,840	375,680	332,160	329,600	383,360	355,200	104,960
2	Land in farms.....acres 1969...	344,464	275,578	197,122	266,279	223,786	252,293	148,732	87,639
3	Drainage projects.....number 1969...	18	7	11	12	11	6	1	1
4	1950...	18	6	9	11	16	5	1	1
5	Total area in drainage projects ¹.....acres served 1960...	69,477	8,554	15,106	41,344	15,085	22,858	1,702	8,000
6	1950...	69,477	7,754	15,106	39,044	26,903	31,542	1,702	3,164
7	Area not used for agriculture or not drained.....acres served 1960...	8,000	...	...	7,600	...	16,696	...	800
8	Net area drained and used for agriculture.....acres served 1960...	61,477	8,554	15,106	33,744	15,085	6,162	1,702	7,200
9	Drainage established before 1950.....acres served 1960...	61,477	7,754	15,106	31,444	15,085	6,162	1,702	3,164
10	Area added, 1950-1959.....acres served 1960...	...	800	...	2,300	...	...	...	4,036
11	Area served by two or more projects.....acres served 1960...	...	...	...	...	...	...	...	...
PROJECTS, 1960, BY TYPE OF ORGANIZATION									
12	Drains owned by one landowner.....number of projects...	...	1	...	1	...	...	...	...
13	acres served ²...	...	800	...	500	...	...	...	...
14	Cooperative or mutual drains.....number of projects...	2	...	2	2	...	...	...	...
15	acres served ² ...	1,370	...	1,500	4,600	...	...	...	...
16	Locally organized public drains.....number of projects...	16	6	9	9	11	6	1	1
17	acres served ² ...	60,107	7,754	13,606	28,644	15,085	6,162	1,702	7,200
PROJECTS, 1960, BY YEAR STARTED									
18	1950-1959.....number of projects...	...	1	2	1	...	...	...	1
19	acres served ²...	...	800	1,500	2,300	...	...	...	7,200
20	Prior to 1960.....number of projects...	18	6	9	11	11	6	1	...
21	acres served ² ...	61,477	7,754	13,606	31,444	15,085	6,162	1,702	...
DRAINAGE OPERATIONS, 1950-1959 ³									
22	Cost of drainage works and services.....projects reporting...	...	(⁴)	2	2	...	...	...	1
23	dollars...	...	(⁴)	14,200	27,000	...	...	...	202,382
24	New drainage works constructed, enlarged, or installed.....projects reporting...	...	(⁴)	...	2	...	...	...	1
25	dollars...	...	(⁴)	...	23,000	...	...	...	202,382
26	Open ditches.....projects reporting...	...	(⁴)	...	2	...	...	...	1
27	length, miles...	...	(⁴)	...	13.0	...	...	...	8.7
28	Tile or covered drains.....projects reporting...	...	...	...	...	...	...	...	...
29	length, miles...	...	...	...	...	...	...	...	...
30	Levees or dikes.....projects reporting...	...	...	...	...	...	...	...	...
31	length, miles...	...	...	...	...	...	...	...	...
32	Pumps.....projects reporting...	...	...	...	...	...	...	...	...
33	number of pumps...	...	...	...	...	...	...	...	...
34	Other (see text).....projects reporting...	...	...	...	...	...	...	...	...
35	Cost of maintenance, operation, repair, and administration.....projects reporting...	...	...	2	1	...	...	...	...
36	dollars...	...	...	14,200	4,000	...	...	...	...

¹Land served by two or more projects counted only once.²Acres served by two projects are included for each project. See text.³Includes projects taken over by another project prior to 1960. See text.⁴Included in State total only.

DRAINAGE OF AGRICULTURAL LANDS

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

Item and Census year		Lauderdale	McNairy	Madison	Obion	Perry	Shelby	Tipton	Weakley
AREA									
1	Approximate land area.....acres 1960...	310,400	364,160	358,400	352,000	268,160	480,640	293,120	368,640
2	Land in farms.....acres 1959...	225,566	213,956	263,409	285,759	129,748	293,581	241,009	280,127
3	Drainage projects.....number 1960...	4	22	12	12	1	12	10	15
4	1950...	4	13	12	12	...	7	8	14
5	Total area in drainage projects ¹.....acres served 1960...	8,857	30,328	36,220	44,711	1,685	54,862	17,219	66,147
6	1950...	8,857	25,138	36,220	45,458	...	43,812	17,219	66,047
7	Area not used for agriculture or not drained.....acres served 1960...	...	...	6,500	18,500	...	...	...	14,700
8	Net area drained and used for agriculture.....acres served 1960...	8,857	30,328	29,720	26,211	1,685	54,862	17,219	51,447
9	Drainage established before 1960.....acres served 1960...	8,857	25,138	29,720	24,028	1,685	53,612	17,219	51,447
10	Area added, 1950-1959.....acres served 1960...	...	5,190	...	2,183	...	1,250	...	...
11	Area served by two or more projects.....acres served 1960...	...	...	...	...	...	500	...	...
PROJECTS, 1960, BY TYPE OF ORGANIZATION									
12	Drains owned by one landowner.....number of projects...	...	4	...	...	...	...	1	...
13	acres served ²...	...	3,958	...	...	...	...	1,175	...
14	Cooperative or mutual drains.....number of projects...	2	6	...	1	...	4	5	...
15	acres served ² ...	2,656	5,140	...	850	...	3,190	7,501	...
16	Legally organized public drains.....number of projects...	2	12	12	11	1	8	4	15
17	acres served ² ...	6,201	21,230	29,720	25,361	1,685	52,172	8,543	51,447
PROJECTS, 1960, BY YEAR STARTED									
18	1950-1959.....number of projects...	...	9	...	2	...	2	2	1
19	acres served ²...	...	6,740	...	5,150	...	1,250	4,500	2,800
20	Prior to 1950.....number of projects...	4	13	12	10	1	10	8	14
21	acres served ² ...	8,857	23,588	29,720	21,061	1,685	54,112	12,719	48,647
DRAINAGE OPERATIONS, 1950-1959 ³									
22	Cost of drainage works and services.....projects reporting...	...	10	...	3	...	6	4	1
23	dollars...	...	53,987	...	172,019	...	70,252	26,200	10,000
24	New drainage works constructed, enlarged, or installed.....projects reporting...	...	8	...	2	...	2	...	1
25	dollars...	...	29,000	...	147,019	...	22,752	...	10,000
26	Open ditches.....projects reporting...	...	8	...	2	...	2	...	1
27	length, miles...	...	16.5	...	7.6	...	5.8	...	7.0
28	Tile or covered drains.....projects reporting...	...	...	...	...	...	...	...	...
29	length, miles...	...	...	...	...	...	...	...	...
30	Levees or dikes.....projects reporting...	...	...	...	...	...	...	...	...
31	length, miles...	...	...	...	...	...	...	...	...
32	Pumps.....projects reporting...	...	...	...	...	...	...	...	...
33	number of pumps...	...	...	...	...	...	...	...	...
34	Other (see text).....projects reporting...	...	...	...	...	...	...	...	...
35	Cost of maintenance, operation, repair, and administration.....projects reporting...	...	2	...	1	...	5	4	...
36	dollars...	...	24,987	...	25,000	...	47,500	26,200	...

¹Land served by two or more projects counted only once.²Acres served by two projects are included for each project. See text.³Includes projects taken over by another project prior to 1960. See text.

State Table 1.—DRAINAGE PROJECTS—NUMBER, AREA, COST, AND WORKS, 1920 TO 1960

[See text for comparability of data.]

Item	1960 Census	1950 Census	1940 Census	1930 Census	1920 Census
AREA					
Approximate land area..... acres...	168,217,600	168,648,320	168,732,160	167,934,720	167,934,720
Land in farms..... acres...	143,217,559	145,389,014	137,683,372	124,707,130	114,020,621
Drainage projects..... number.....	243	543	81	NA	NA
Total area in drainage projects..... acres served...	6,500,043	5,794,786	4,218,850	2,883,356	2,166,128
Area not used for agriculture or not drained..... acres served...	808,913	NA	NA	NA	NA
Net area drained and used for agriculture..... acres served...	5,691,130	NA	¹ 2,819,775	¹ 1,895,486	NA
Drainage established 10 years or more before Census date..... acres served...	5,372,932	NA	NA	NA	NA
Drainage established within 10 years of Census date..... acres served...	318,198	NA	NA	NA	NA
Area served by two or more projects..... acres served...	247,844	134,831	312,320	...	...
PROJECTS BY TYPE OF ORGANIZATION					
Drains owned by one landowner..... number of projects...	130	² 22	NA	NA	NA
..... acres served...	369,079	² 147,345	² 40,380	² 28,600	² 7,500
Cooperative or mutual drains..... number of projects...	43	² 13	...	...	...
..... acres served...	74,170	² 18,155	...	...	...
Legally organized public drains..... number of projects...	70	² 62	NA	NA	NA
..... acres served...	5,495,725	² 5,155,647	² 3,844,378	² 2,767,477	² 2,102,628
PROJECTS BY YEAR STARTED					
Started 10 years or more before Census date..... number of projects...	133	² 59	NA	NA	NA
..... acres served...	5,744,714	² 3,355,505	3,060,462	2,366,724	893,981
Started within 10 years of Census date..... number of projects...	110	² 38	NA	NA	NA
..... acres served...	194,260	² 1,965,642	1,158,388	516,632	1,272,147
OPERATIONS, 10-YEAR PERIOD PRECEDING CENSUS DATE					
Cost of drainages works and services..... projects reporting...	225	² 89	NA	NA	NA
..... dollars...	28,895,392	9,534,229	NA	NA	NA
New drainage works constructed, enlarged, or installed..... projects reporting...	175	³ 32	NA	NA	NA
..... cost, dollars...	13,031,672	³ 1,822,245	NA	NA	NA
Open ditches..... projects reporting...	171	33	NA	NA	NA
..... length, miles...	3,224.7	968	NA	NA	NA
Tile or covered drains..... projects reporting...	17	1	NA	NA	NA
..... length, miles...	117.0	4	NA	NA	NA
Levees or dikes..... projects reporting...	4	2	NA	NA	NA
..... length, miles...	4.7	7	NA	NA	NA
Pumps..... projects reporting...	5	NA	NA	NA	NA
..... number of pumps...	5	NA	NA	NA	NA
Other (see text)..... projects reporting...	4	NA	NA	NA	NA
Cost of maintenance, operation, repair, and administration..... projects reporting...	141	NA	NA	NA	NA
..... dollars...	15,863,720	7,711,984	NA	NA	NA
STATUS ON CENSUS DATE					
Capital investment..... dollars...	NA	NA	14,047,181	12,002,949	5,700,805
Physical works:					
Open ditches..... length, miles...	NA	NA	4,906.3	3,661.8	2,728.5
Tile drains..... length, miles...	NA	NA	14.1	8.5	...
Levees and dikes..... length, miles...	NA	NA	61.7	215.9	59.8
Pumping units..... number of units...	NA	² 5	11	53	...

NA Not available.

¹Not fully comparable. See text.²1950 figures exclude 446 projects and 473,639 acres in "irrigation enterprises"; 1940 figures exclude 334,092 acres in "irrigation enterprises"; 1930 figures exclude 87,279 acres in "irrigation enterprises"; 1920 figures exclude 56,000 acres in "irrigation enterprises."³Cost of new works for lands not previously drained.

DRAINAGE OF AGRICULTURAL LANDS

State Table 2.—DRAINAGE

Size of project (Based on area of agricultural land in project)	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
		Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
				Projects reporting	Acres	Projects reporting	Acres
1 All projects.....	243	5,938,974	495,688	156	5,611,598	103	327,376
2 500 to 999 acres.....	78	51,490	12,989	28	18,897	50	32,593
3 1,000 to 1,999 acres.....	54	71,193	17,329	31	39,063	27	32,130
4 2,000 to 4,999 acres.....	32	99,489	28,315	21	61,701	13	37,788
5 5,000 to 9,999 acres.....	13	96,652	33,294	12	83,828	3	12,824
6 10,000 to 19,999 acres.....	20	277,059	52,417	18	237,472	4	39,587
7 20,000 to 49,999 acres.....	24	777,625	82,811	24	731,213	2	46,412
8 50,000 to 99,999 acres.....	11	735,784	78,421	11	693,884	1	41,900
9 100,000 or more acres.....	11	3,829,682	190,112	11	3,745,540	3	84,142

State Table 3.—DRAINAGE PROJECTS, 1960,

Type of organization	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
		Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
				Projects reporting	Acres	Projects reporting	Acres
1 All projects.....	243	5,938,974	495,688	156	5,611,598	103	327,376
2 Drains owned by one landowner.....	130	369,079	166,758	64	261,172	72	107,907
3 Cooperative or mutual drains.....	43	74,170	10,886	24	43,560	22	30,610
4 Legally organized public drains.....	70	5,495,725	318,044	68	5,306,866	9	188,859

State Table 4.—DRAINAGE PROJECTS, 1960,

Year of organization	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
		Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
				Projects reporting	Acres	Projects reporting	Acres
1 All projects.....	243	5,938,974	495,688	156	5,611,598	103	327,376
2 1950-1959.....	110	194,260	36,018	23	54,032	88	140,228
3 Prior to 1950.....	133	5,744,714	459,670	133	5,557,566	15	187,148

PROJECTS, 1960, BY SIZE

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959								
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	
225	28,895,392	175	13,031,672	171	3,224.7	17	117.0	4	4.7	5	5	4
73	331,711	65	264,146	64	367.2	4	0.4	3	3.7	...	...	1
49	263,934	40	222,519	40	347.4	1	0.1	...	...	1	1	3
28	418,917	22	311,492	22	216.6	...	...	...	...	...	...	1
11	338,164	7	136,314	6	120.5	1	1.0	...	...	1	1	...
18	2,127,599	12	996,846	11	764.6	2	1.1	...	...	1	1	...
24	2,420,066	12	255,349	12	205.5	1	1.7	...	...	...	...	1
11	5,311,387	7	1,190,347	6	232.0	5	110.3	1	1.0	1	1	...
11	17,683,614	10	9,654,659	10	970.9	3	2.4	...	...	1	1	...

BY TYPE OF ORGANIZATION

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959								
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	
225	28,895,392	175	13,031,672	171	3,224.7	17	117.0	4	4.7	5	5	4
125	1,305,444	113	1,020,577	112	1,685.2	4	0.4	3	3.7	2	2	3
32	263,423	26	224,690	26	123.4	1	0.1	...	...	...	...	...
68	27,326,525	36	11,786,405	33	1,416.1	12	116.5	1	1.0	3	3	1

BY YEAR OF ORGANIZATION

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959								
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	
225	28,895,392	175	13,031,672	171	3,224.7	17	117.0	4	4.7	5	5	4
110	1,075,004	108	958,539	108	1,097.4	4	0.4	2	0.2	1	1	1
115	27,820,388	67	12,073,133	63	2,167.3	13	116.6	2	4.5	4	4	3

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

Item and Census year		The State	Anderson	Austin	Bowie	Brasoria	Brasos	Burleson	Calhoun	Cameron
AREA										
1	Approximate land area.....acres 1960...	168,217,600	682,880	423,680	577,920	910,080	373,120	434,560	343,040	565,120
2	Land in farms.....acres 1959.....	143,217,559	444,650	414,165	351,142	633,166	325,983	371,000	158,054	486,198
3	Drainage projects.....number 1960.....	243	1	5	10	17	9	1	14	9
4	.....1950.....	543	1	4	1	23	2	...	7	41
5	Total area in drainage projects ¹.....acres served 1960.....	6,500,043	1,145	12,540	8,749	476,129	7,412	1,250	92,532	271,226
6	.....1950.....	5,794,786	1,145	11,140	1,000	374,510	1,768	...	93,099	277,258
7	Area not used for agriculture or not drained.....acres served 1960.....	808,913	...	...	...	29,500	...	...	...	5,585
8	Not area drained and used for agriculture.....acres served 1960.....	5,691,130	1,145	12,540	8,749	446,629	7,412	1,250	92,532	265,641
9	Drainage established before 1950.....acres served 1960.....	5,372,932	1,145	10,740	2,791	358,736	1,249	...	83,011	263,731
10	Area added, 1950-1959.....acres served 1960.....	318,198	...	1,800	5,958	87,693	6,163	1,250	9,521	1,910
11	Area served by two or more projects.....acres served 1960.....	247,844	...	...	...	3,640	...	...	2,900	...
PROJECTS, 1960, BY TYPE OF ORGANIZATION										
12	Drains owned by one landowner.....number of projects.....	130	1	3	9	7	7	...	3	...
13	.....acres served ²	369,079	1,145	3,020	7,749	25,581	5,163	...	3,040	...
14	Cooperative or mutual drains.....number of projects.....	43	...	1	1	1	2	1	6	2
15	.....acres served ³	74,170	...	600	1,000	510	2,249	1,250	8,058	1,910
16	Legally organized public drains.....number of projects.....	70	...	1	...	9	...	...	5	7
17	.....acres served ³	5,495,725	...	8,920	...	424,178	...	...	84,334	263,731
PROJECTS, 1960, BY YEAR STARTED										
18	1950-1959.....number of projects.....	110	...	2	6	7	7	1	7	2
19	.....acres served ²	194,260	...	1,800	3,955	24,491	5,163	1,250	37,535	1,910
20	Prior to 1950.....number of projects.....	133	1	3	4	10	2	...	7	7
21	.....acres served ²	5,744,714	1,145	10,740	4,794	425,778	2,249	...	57,897	263,731
DRAINAGE OPERATIONS, 1950-1959 ⁴										
22	Cost of drainage works and services.....projects reporting...	225	(⁴)	3	10	17	8	(⁴)	11	9
23	.....dollars.....	28,895,392	(⁴)	7,155	56,422	4,361,601	47,450	(⁴)	195,183	794,412
24	New drainage works constructed, enlarged, or installed.....projects reporting...	175	(⁴)	2	8	15	8	(⁴)	7	6
25	.....dollars.....	13,031,672	(⁴)	4,975	51,447	775,034	46,250	(⁴)	139,558	169,912
26	Open ditches.....projects reporting...	171	(⁴)	2	8	14	8	(⁴)	7	6
27	.....length, miles.....	3,244.7	(⁴)	11.2	140.3	381.7	68.5	(⁴)	35.2	53.0
28	Tile or covered drains.....projects reporting...	17	...	...	...	6	...	...	1	1
29	.....length, miles.....	117.0	...	...	...	9.8	...	...	0.1	28.4
30	Levees or dikes.....projects reporting...	4	...	...	...	...	...	...	...	...
31	.....length, miles.....	4.7	...	...	...	...	...	...	...	1
32	Pumps.....projects reporting...	5	...	...	...	1	...	...	...	1
33	.....number of pumps.....	5	...	...	...	1	...	...	...	1
34	Other (see text).....projects reporting...	4	...	...	...	...	...	...	...	1
35	Cost of maintenance, operation, repair, and administration.....projects reporting...	141	...	2	6	9	1	...	5	7
36	.....dollars.....	15,863,720	...	2,180	4,975	3,586,567	1,200	...	55,625	624,500

¹Land served by two or more projects counted only once.²Acres served by two projects are included for each project. See text.³Includes projects taken over by another project prior to 1960. See text.⁴Included in State total only.

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959-Continued

[See text for comparability of 1960 and 1950 data]

Item and Census year	Chambers	Colorado	Dallas	Delta	De Witt	Falls	Fannin	Fort Bend	Galveston
AREA									
1 Approximate land area.....acres 1960...	394,880	1,608,000	570,880	176,640	582,400	487,040	579,840	551,680	274,560
2 Land in farms.....acres 1950...	350,064	1,609,762	277,641	146,901	573,303	412,244	469,289	545,759	125,677
3 Drainage projects..... number 1960...	5	2	6	3	1	2	4	11	6
4 1950...	21	18	18	3	1	1	3	19	6
5 Total area in drainage projects ¹ acres served 1960...	320,200	608,000	9,116	9,946	1,200	1,500	19,235	551,680	77,226
6 1950...	392,000	603,469	226	10,541	600	20	16,735	24,515	73,865
7 Area not used for agriculture or not drained..... acres served 1960...	33,000	...	...	...	600	...	...	4,500	3,500
8 Net area drained and used for agriculture..... acres served 1960...	287,200	608,000	9,116	9,946	600	1,500	19,235	547,180	73,726
9 Drainage established before 1950..... acres served 1960...	287,200	608,000	6,925	9,946	600	...	16,735	547,180	71,992
10 Area added, 1950-1959..... acres served 1960...	...	...	2,191	...	...	1,500	2,500	...	1,734
11 Area served by two or more projects..... acres served 1960...	43,219	771	...	...	...	...	...	31,850	...
PROJECTS, 1960, BY TYPE OF ORGANIZATION									
12 Drains owned by one landowner..... number of projects...	4	...	6	...	...	2	1	7	2
13 acres served ² ...	44,419	...	9,116	...	...	1,500	2,500	29,945	5,192
14 Cooperative or mutual drains..... number of projects...	...	1	...	...	...	...	...	3	1
15 acres served ³...	...	771	...	...	...	...	...	1,905	1,734
16 Legally organized public drains..... number of projects...	1	1	...	3	1	...	3	1	3
17 acres served ³ ...	286,000	608,000	...	9,946	600	...	16,735	547,180	66,800
PROJECTS, 1960, BY YEAR STARTED									
18 1950-1959..... number of projects...	...	1	3	...	...	2	1	4	1
19 acres served ³...	...	771	2,191	...	...	1,500	2,500	2,635	1,734
20 Prior to 1950..... number of projects...	5	1	3	3	1	...	3	7	5
21 acres served ³ ...	330,419	1,608,000	6,925	9,946	600	...	16,735	576,395	71,992
DRAINAGE OPERATIONS, 1950-1959 ⁴									
22 Cost of drainage works and services.....projects reporting...	4	2	6	3	1	(5)	3	10	5
23 dollars...	2,856,456	219,049	38,320	4,747	10,000	(5)	46,099	3,883,598	589,011
24 New drainage works constructed, enlarged, or installed.....projects reporting...	4	2	6	...	...	(5)	(5)	9	4
25 dollars...	618,981	27,034	17,400	...	...	(5)	(5)	2,583,908	145,300
26 Open ditches.....projects reporting...	4	2	6	...	...	(5)	(5)	9	3
27 length, miles...	242.4	10.5	29.7	...	...	(5)	(5)	838.2	33.1
28 Tile or covered drains.....projects reporting...	...	...	...	...	...	...	...	4	1
29 length, miles...	...	...	...	...	...	...	...	0.4	1.0
30 Levees or dikes.....projects reporting...	...	...	...	...	...	...	...	...	...
31 length, miles...	...	...	...	...	...	...	...	...	...
32 Pumps.....projects reporting...	2	...	...	...	...	...	...	...	...
33 number of pumps...	2	...	...	...	...	...	...	...	...
34 Other (see text).....projects reporting...	...	...	1	...	...	(5)	...	...	...
35 Cost of maintenance, operation, repair, and administration.....projects reporting...	3	2	5	3	1	...	2	7	4
36 dollars...	2,237,475	192,015	20,920	4,747	10,000	...	1,329	1,299,650	443,711

¹The excess of farm acreage over approximate land area is due to the fact that the entire acreage of a farm is tabulated as in the county in which the headquarters is located, even though a part of the farm may be situated in an adjoining county.

²Land served by two or more projects counted only once.

³Acres served by two projects are included for each project. See text.

⁴Includes projects taken over by another project prior to 1960. See text.

⁵Included in State total only.

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959-Continued

[See text for comparability of 1960 and 1950 data.]

Item and Census year		Grimes	Hardeman	Hardin	Harris	Henderson	Hidalgo	Houston	Jackson	Jefferson
AREA										
1	Approximate land area.....acres 1960...	512,640	438,400	572,800	1,095,040	599,040	986,240	788,480	1,546,560	604,800
2	Land in farms.....acres 1959.....	424,485	375,791	175,904	667,255	373,735	810,422	484,516	1,561,183	422,292
3	Drainage projects.....number 1960...	3	1	1	9	3	3	19	10	7
4	.....1950.....	...	...	...	46	...	69	2	15	30
5	Total area in drainage projects ¹.....acres served 1960...	1,999	625	860	1,095,040	2,300	384,800	48,137	188,572	357,274
6	.....1950.....	...	...	...	1,012,261	...	496,045	2,800	174,264	320,270
7	Area not used for agriculture or not drained.....acres served 1960...	...	...	...	478,040	...	22,000	...	...	56,250
8	Not area drained and used for agriculture.....acres served 1960...	1,999	625	860	617,000	2,300	362,800	48,137	188,572	300,924
9	Drainage established before 1950.....acres served 1960...	1,369	625	...	617,000	...	362,800	12,300	170,500	300,924
10	Area added, 1950-1959.....acres served 1960...	630	...	860	...	2,300	...	35,837	18,072	...
11	Area served by two or more projects.....acres served 1960...	...	...	...	16,992	...	70,200	...	5,400	960
PROJECTS, 1960, BY TYPE OF ORGANIZATION										
12	Drains owned by one landowner.....number of projects...	3	1	1	8	3	...	14	1	1
13	.....acres served ² ...	1,999	625	860	16,992	2,300	...	34,137	4,700	960
14	Cooperative or mutual drains.....number of projects...	...	...	...	...	...	...	3	3	1
15	.....acres served ²...	...	...	...	...	...	...	5,276	2,435	2,100
16	Legally organized public drains.....number of projects...	...	...	...	1	...	3	2	6	5
17	.....acres served ²...	...	...	...	617,000	...	433,000	8,724	186,837	298,824
PROJECTS, 1960, BY YEAR STARTED										
18	1950-1959.....number of projects...	1	...	1	6	3	...	16	4	...
19	.....acres served ³ ...	630	...	860	9,872	2,300	...	34,837	7,135	...
20	Prior to 1950.....number of projects...	2	1	...	3	...	3	3	6	7
21	.....acres served ³ ...	1,369	625	...	624,120	...	433,000	13,300	186,837	301,884
DRAINAGE OPERATIONS, 1950-1959 ⁴										
22	Cost of drainage works and services.....projects reporting...	3	(⁵)	(⁵)	9	3	3	19	10	5
23	.....dollars...	6,764	(⁵)	(⁵)	6,567,228	29,000	1,335,826	287,329	674,270	2,322,109
24	New drainage works constructed, enlarged, or installed.....projects reporting...	(⁵)	...	(⁵)	8	3	2	17	7	3
25	.....dollars...	(⁵)	...	(⁵)	5,724,528	29,000	323,000	236,921	50,746	721,358
26	Open ditches.....projects reporting...	(⁵)	...	(⁵)	8	3	1	17	7	3
27	.....length, miles...	(⁵)	...	(⁵)	179.9	35.2	18.0	200.6	39.2	56.0
28	Tile or covered drains.....projects reporting...	...	...	...	1	...	1	...	...	1
29	.....length, miles...	...	...	...	1.0	...	75.0	...	...	0.4
30	Levees or dikes.....projects reporting...	...	...	...	...	...	...	...	...	...
31	.....length, miles...	...	...	...	...	...	...	...	...	...
32	Pumps.....projects reporting...	...	...	...	...	...	...	...	...	...
33	.....number of pumps...	...	...	...	...	...	...	...	...	...
34	Other (see text).....projects reporting...	...	...	...	...	...	...	...	...	...
35	Cost of maintenance, operation, repair, and administration.....projects reporting...	3	(⁵)	...	6	...	3	8	6	5
36	.....dollars...	2,764	(⁵)	...	842,700	...	1,012,826	50,408	623,524	1,600,751

¹The excess of farm acreage over approximate land area is due to the fact that the entire acreage of a farm is tabulated as in the county in which the headquarters is located, even though a part of the farm may be situated in an adjoining county.

²Land served by two or more projects counted only once.

³Acres served by two projects are included for each project. See text.

⁴Includes projects taken over by another project prior to 1960. See text.

⁵Included in State total only.

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959-Continued

(See text for comparability of 1960 and 1950 data)

Item and Census year	Kaufman	Lamar	Liberty	Madison	Matagorda	Nueces	Orange	Polk	Refugio
AREA									
1 Approximate land area.....acres 1960...	520,960	579,840	750,720	305,920	729,600	1,536,320	227,840	700,160	1,493,440
2 Land in farms.....acres 1959...	466,555	496,627	532,575	303,213	727,574	1,628,263	95,981	284,155	1,498,301
3 Drainage projects.....number 1960...	3	8	12	6	19	10	1	2	2
4 1950...	...	4	32	...	26	3	6	...	1
5 Total area in drainage projects ¹.....acres served 1960...	2,837	15,531	180,594	10,600	340,524	104,340	208,000	1,969	123,260
6 1950...	...	11,652	194,024	...	227,633	70,090	208,000	...	123,260
7 Area not used for agriculture or not drained.....acres served 1960...	...	...	...	...	1,500	...	158,000	...	...
8 Net area drained and used for agriculture.....acres served 1960...	2,837	15,531	180,594	10,600	339,024	104,340	50,000	1,969	123,260
9 Drainage established before 1950.....acres served 1960...	1,037	11,849	149,989	...	261,979	100,840	50,000	1,356	123,260
10 Area added, 1950-1959.....acres served 1960...	1,800	3,682	30,605	10,600	77,045	3,500	...	613	...
11 Area served by two or more projects.....acres served 1960...	...	...	37,992	...	8,220	5,300	...	...	3,600
PROJECTS, 1960, BY TYPE OF ORGANIZATION									
12 Drains owned by one landowner.....number of projects...	3	1	8	4	12	3	...	2	1
13 acres served ² ...	2,837	2,319	49,134	4,600	27,044	2,000	...	1,969	3,600
14 Cooperative or mutual drains.....number of projects...	...	4	...	2	3	5	...	...	...
15 acres served ³...	...	3,368	...	6,000	7,600	6,800	...	...	...
16 Legally organized public drains.....number of projects...	...	3	4	...	4	2	1	...	1
17 acres served ³...	...	9,844	169,452	...	312,600	100,840	50,000	...	123,260
PROJECTS, 1960, BY YEAR STARTED									
18 1950-1959.....number of projects...	2	3	1	6	8	4	...	1	1
19 acres served ³ ...	1,80	3,682	530	10,600	12,645	5,300	...	613	3,600
20 Prior to 1950.....number of projects...	1	5	11	...	11	6	1	1	1
21 acres served ³ ...	1,037	11,849	218,056	...	334,599	104,340	50,000	1,356	123,260
DRAINAGE OPERATIONS, 1950-1959 ⁴									
22 Cost of drainage works and services.....projects reporting...	3	6	12	6	18	9	1	(⁵)	(⁵)
23 dollars...	14,848	22,655	531,903	72,500	803,795	150,460	1,200,000	(⁵)	(⁵)
24 New drainage works constructed, enlarged, or installed.....projects reporting...	5	3	9	6	14	5	1	(⁵)	(⁵)
25 dollars...	8,600	17,593	129,120	69,102	128,055	61,700	360,000	(⁵)	(⁵)
26 Open ditches.....projects reporting...	3	3	9	6	14	4	1	(⁵)	(⁵)
27 length, miles...	16.5	37.8	203.4	54.6	78.8	17.7	134.0	(⁵)	(⁵)
28 Tile or covered drains.....projects reporting...	...	...	...	...	...	...	1	...	...
29 length, miles...	..	...	...	...	...	...	0.9	...	...
30 Levees or dikes.....projects reporting...	...	...	...	...	...	1	1	(⁵)	...
31 length, miles...	...	...	...	...	...	3.5	1.0	(⁵)	...
32 Pumps.....projects reporting...	1	...	...	...	...	...	...	...	...
33 number of pumps...	1	...	...	...	...	...	...	...	...
34 Other (see text).....projects reporting...	...	...	...	...	...	...	...	...	...
35 Cost of maintenance, operation, repair, and administration.....projects reporting...	3	4	9	2	11	7	1	(⁵)	(⁵)
36 dollars...	6,248	5,062	402,783	3,398	675,740	88,760	840,000	(⁵)	(⁵)

¹The excess of farm acreage over approximate land area is due to the fact that the entire acreage of a farm is tabulated as in the county in which the headquarters is located, even though a part of the farm may be situated in an adjoining county.

²Land served by two or more projects counted only once.

³Acres served by two projects are included for each project. See text.

⁴Includes projects taken over by another project prior to 1960. See text.

⁵Included in State total only.

DRAINAGE OF AGRICULTURAL LANDS

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959-Continued

[See text for comparability of 1960 and 1950 data]

Item and Census year	Robertson	Rockwall	San Patricio	Victoria	Waller	Ward	Washington	Wharton	Willacy	All other counties ¹
AREA										
1 Approximate land area.....acres 1960...	558,720	94,080	² 435,200	571,520	324,480	529,280	391,040	² 690,560	380,800	25,620,480
2 Land in farms.....acres 1958.....	392,427	86,703	² 549,114	551,046	287,496	469,531	339,225	² 710,574	373,751	22,578,930
3 Drainage projects..... number 1960.....	9	1	3	8	4	1	1	4	1	...
4 1950.....	1	...	3	5	6	2	...	31	7	111
5 Total area in drainage projects ³ acres served 1960.....	9,351	766	58,407	165,813	2,920	32,478	900	690,560	2,500	...
6 1950.....	1,062	...	58,407	136,123	3,535	37,645	...	690,560	21,983	123,681
7 Area not used for agriculture or not drained..... acres served 1960.....	...	...	1,360	...	...	12,478	...	2,500	...	...
8 Net area drained and used for agriculture..... acres served 1960.....	9,351	766	57,047	165,813	2,920	20,000	900	688,060	2,500	...
9 Drainage established before 1950..... acres served 1960.....	3,737	766	57,047	165,813	1,700	20,000	...	688,060	...	...
10 Area added, 1950-1959..... acres served 1960.....	5,614	...	...	...	1,220	...	900	...	2,500	...
11 Area served by two or more projects..... acres served 1960.....	...	...	...	2,500	...	...	...	14,300	...	...
PROJECTS, 1960, BY TYPE OF ORGANIZATION										
12 Drains owned by one landowner..... number of projects...	7	1	...	4	3	...	1	2	1	...
13 acres served ⁴	7,347	766	...	47,500	2,320	...	900	13,300	2,500	...
14 Cooperative or mutual drains..... number of projects...	2	...	...	1	1	...	...	1	...	...
15 acres served ⁴	2,004	...	...	17,000	600	...	...	1,000	...	...
16 Legally organized public drains..... number of projects...	...	...	3	3	...	1	...	1	...	...
17 acres served ⁴.....	...	...	57,047	103,813	...	20,000	...	688,060	...	...
PROJECTS, 1960, BY YEAR STARTED										
18 1950-1959..... number of projects...	6	...	...	2	2	...	1	...	1	...
19 acres served ⁴	5,301	...	...	2,500	1,220	...	900	...	2,500	...
20 Prior to 1950..... number of projects.....	3	1	3	6	2	1	...	4	...	...
21 acres served ⁴	4,050	766	57,047	165,813	1,700	20,000	...	702,360	...	...
DRAINAGE OPERATIONS, 1950-1959 ⁵										
22 Cost of drainage works and services.....projects reporting...	9	(⁶)	3	6	3	1	(⁶)	4	(⁶)	...
23 dollars.....	78,943	(⁶)	129,139	725,890	12,201	54	(⁶)	442,902	(⁶)	...
24 New drainage works constructed, enlarged, or installed.....projects reporting...	8	(⁶)	...	5	3	...	(⁶)	1	(⁶)	...
25 dollars.....	49,643	(⁶)	...	74,450	11,701	...	(⁶)	60,000	(⁶)	...
26 Open ditches.....projects reporting...	8	(⁶)	...	5	3	...	(⁶)	1	(⁶)	...
27 length, miles.....	52.9	(⁶)	...	97.8	10.5	...	(⁶)	30.0	(⁶)	...
28 Tile or covered drains.....projects reporting...	...	...	...	...	...	...	...	...	...	...
29 length, miles.....	...	...	...	...	...	...	...	...	...	...
30 Levees or dikes.....projects reporting...	...	...	...	...	1	...	...	...	...	...
31 length, miles.....	...	...	...	...	0.1	...	...	...	...	...
32 Pumps.....projects reporting...	...	...	...	...	...	...	...	...	...	...
33 number of pumps.....	...	...	...	...	...	...	...	...	...	...
34 Other (see text).....projects reporting...	1	...	...	...	...	...	...	...	...	...
35 Cost of maintenance, operation, repair, and administration.....projects reporting...	7	(⁶)	3	5	1	1	(⁶)	4	...	...
36 dollars.....	29,300	(⁶)	129,139	651,440	500	54	(⁶)	382,902	...	...

¹Includes Atascosa, Bexar, Brown, Castro, Crosby, Dawson, Deaf Smith, Dimmit, El Paso, Gonzales, Hale, Hockley, Hudspeth, Lamb, Lampasas, Lubbock, Lynn, McLennan, Mason, Maverick, Menard, Pecos, Randall, Reeves, Starr, Swisher, Tarrant, Taylor, Wichita, Williamson, and Zapata counties.

²The excess of farm acreage over approximate land area is due to the fact that the entire acreage of a farm is tabulated as in the county in which the headquarters is located, even though a part of the farm may be situated in an adjoining county.

³Land served by two or more projects counted only once.

⁴Area served by two projects are included for each project. See text.

⁵Includes projects taken over by another project prior to 1960. See text.

⁶Included in State total only.

State Table 1.—DRAINAGE PROJECTS—NUMBER, AREA, COST, AND WORKS, 1920 TO 1960

[See text for comparability of data]

Item	1960 Census	1950 Census	1940 Census	1930 Census	1920 Census
AREA					
Approximate land area.....acres...	52,696,960	52,701,440	52,701,440	52,597,760	52,597,760
Land in farms.....acres...	12,688,518	10,865,165	7,302,007	5,613,101	5,050,410
Drainage projects.....number...	9	471	36	NA	NA
Total area in drainage projects.....acres served...	68,910	302,158	202,058	156,052	113,823
Area not used for agriculture or not drained.....acres served...	2,000	NA	NA	NA	NA
Net area drained and used for agriculture.....acres served...	66,910	NA	140,148	109,518	NA
Drainage established 10 years or more before Census date.....acres served...	66,390	NA	NA	NA	NA
Drainage established within 10 years of Census date.....acres served...	520	NA	NA	NA	NA
Area served by two or more projects.....acres served...	...	5,292	2,092	...	...
PROJECTS BY TYPE OF ORGANIZATION					
Drains owned by one landowner.....number of projects...	...	24	NA	NA	NA
.....acres served...	...	24,120	212,020	11,200	8,304
Cooperative or mutual drains.....number of projects...	1	27	...	...	...
.....acres served...	1,300	216,070	...	...	...
Legally organized public drains.....number of projects...	8	225	NA	NA	NA
.....acres served...	65,610	2130,003	2148,677	144,852	105,519
PROJECTS BY YEAR STARTED					
Started 10 years or more before Census date.....number of projects...	8	228	NA	NA	NA
.....acres served...	65,870	2142,309	199,755	130,488	750
Started within 10 years of Census date.....number of projects...	1	28	NA	NA	NA
.....acres served...	1,040	27,884	2,303	25,564	113,073
OPERATIONS, 10-YEAR PERIOD PRECEDING CENSUS DATE					
Cost of drainage works and services.....projects reporting...	5	230	NA	NA	NA
.....dollars...	558,392	836,973	NA	NA	NA
New drainage works constructed, enlarged, or installed.....projects reporting...	3	313	NA	NA	NA
.....cost, dollars...	350,197	229,181	NA	NA	NA
Open ditches.....projects reporting...	2	12	NA	NA	NA
.....length, miles...	60.9	29	NA	NA	NA
Tile or covered drains.....projects reporting...	2	3	NA	NA	NA
.....length, miles...	3.6	5	NA	NA	NA
Levees or dikes.....projects reporting...	...	...	NA	NA	NA
.....length, miles...	...	...	NA	NA	NA
Pumps.....projects reporting...	...	NA	NA	NA	NA
.....number of pumps...	...	NA	NA	NA	NA
Other (see text).....projects reporting...	...	NA	NA	NA	NA
Cost of maintenance, operation, repair, and administration.....projects reporting...	5	NA	NA	NA	NA
.....dollars...	208,195	807,792	NA	NA	NA
STATUS ON CENSUS DATE					
Capital investment.....dollars...	NA	NA	4,869,273	4,772,000	1,005,473
Physical works:					
Open ditches.....length, miles...	NA	NA	267.8	304.3	120.3
Tile drains.....length, miles...	NA	NA	1,618.6	1,944.5	599.1
Levees and dikes.....length, miles...	NA	NA	5.0	2.0	2.0
Pumping units.....number of units...	NA	(2)	...	...	NA

NA Not available.

¹Not fully comparable. See text.²In 1950, figures exclude 435 projects and 151,965 acres in "irrigation enterprises"; in 1940, figures exclude 41,361 acres in "irrigation enterprises."³Cost of new works for lands not previously drained.

State Table 2.—DRAINAGE

Size of project (Based on area of agricultural land in project)	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
		Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
				Projects reporting	Acres	Projects reporting	Acres
1 All projects.....	9	66,910	...	9	66,390	1	520
2 500 to 999 acres.....	...	...	...	...	...	...	...
3 1,000 to 1,999 acres.....	6	8,110	...	6	7,590	1	520
4 2,000 to 4,999 acres.....	1	2,800	...	1	2,800	...	...
5 5,000 to 9,999 acres.....	...	...	...	...	...	...	...
6 10,000 to 19,999 acres.....	1	12,000	...	1	12,000	...	...
7 20,000 to 49,999 acres.....	1	44,000	...	1	44,000	...	...
8 50,000 to 99,999 acres.....	...	...	...	...	...	...	...
9 100,000 or more acres.....	...	...	...	...	...	...	...

State Table 3.—DRAINAGE PROJECTS, 1960,

Type of organization	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
		Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
				Projects reporting	Acres	Projects reporting	Acres
1 All projects.....	9	66,910	...	9	66,390	1	520
2 Drains owned by one landowner.....	...	...	...	...	...	...	...
3 Cooperative or mutual drains.....	1	1,300	...	1	1,300	...	...
4 Legally organized public drains.....	8	65,610	...	8	65,090	1	520

State Table 4.—DRAINAGE PROJECTS, 1960,

Year of organization	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
		Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
				Projects reporting	Acres	Projects reporting	Acres
1 All projects.....	9	66,910	...	9	66,390	1	520
2 1950-1959.....	1	1,040	...	1	520	1	520
3 Prior to 1950.....	8	65,870	...	8	65,870	...	...

PROJECTS, 1960, BY SIZE

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959									
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting	
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number		
5	558,392	3	350,197	2	60.9	2	3.6	...	...	...	...	...	1
...	...	...	...	...	...	...	...	...	...	...	...	...	2
2	272,460	2	269,197	1	6.4	2	3.6	...	...	...	...	...	3
1	2,176	...	...	...	...	...	...	...	...	...	...	...	4
...	...	...	...	...	...	...	...	...	...	...	...	...	5
1	130,463	...	...	...	...	...	...	...	...	...	...	...	6
1	153,293	1	81,000	1	54.5	...	...	...	...	...	...	...	7
...	...	...	...	...	...	...	...	...	...	...	...	...	8
...	...	...	...	...	...	...	...	...	...	...	...	...	9

BY TYPE OF ORGANIZATION

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959								
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	
5	558,392	3	350,197	2	60.9	2	3.6	...	...	...	...	...
...
...
5	558,392	3	350,197	2	60.9	2	3.6	...	...	...	...	...

BY YEAR OF ORGANIZATION

Cost of drainage works and services, 1950-1959					New works constructed, enlarged, or installed, 1950-1959								
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting	
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number		
5	558,392	3	350,197	2	60.9	2	3.6	...	...	...	...	...	1
1	270,000	1	268,000	1	6.4	1	3.4	...	...	...	...	...	2
4	288,392	2	82,197	1	54.5	1	0.2	...	...	...	...	...	3

DRAINAGE OF AGRICULTURAL LANDS

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

Item and Census year		The State	Box Elder	Cache	Davis	Millard	Piute	Savier	All other counties ¹
AREA									
1	Approximate land area.....acres 1960...	52,696,960	3,580,160	752,000	² 171,520	4,254,720	481,920	1,236,480	31,799,040
2	Land in farms.....acres 1959...	12,688,518	1,698,855	428,790	² 277,991	593,390	79,093	240,199	7,451,542
3	Drainage projects.....number 1960...	9	3	1	2	1	1	1	...
4	.....1950...	471	45	45	62	10	4	33	275
5	Total area in drainage projects ³.....acres served 1960...	68,910	16,100	1,000	2,570	46,000	1,800	1,440	...
6	.....1950...	302,158	46,250	26,064	16,683	116,344	2,280	21,504	73,033
7	Area not used for agriculture or not drained.....acres served 1960...	2,000	...	...	...	2,000	...	...	...
8	Net area drained and used for agriculture.....acres served 1960...	66,910	16,100	1,000	2,570	44,000	1,800	1,440	...
9	Drainage established before 1960.....acres served 1960...	66,390	16,100	1,000	2,050	44,000	1,800	1,440	...
10	Area added, 1950-1959.....acres served 1960...	520	...	...	520	...	...	...	...
11	Area served by two or more projects.....acres served 1960...	...	...	...	...	...	...	...	...
PROJECTS, 1960, BY TYPE OF ORGANIZATION									
12	Drains owned by one landowner.....number of projects...	...	...	...	...	...	...	...	...
13	.....acres served ⁴...	...	...	...	...	...	...	...	...
14	Cooperative or mutual drains.....number of projects...	1	1	...	...	...	...	...	...
15	.....acres served ⁴ ...	1,300	1,300	...	...	...	...	...	...
16	Legally organized public drains.....number of projects...	8	2	1	2	1	1	1	...
17	.....acres served ⁴ ...	65,610	14,800	1,000	2,570	44,000	1,800	1,440	...
PROJECTS, 1960, BY YEAR STARTED									
18	1950-1959.....number of projects...	1	...	...	1	...	...	...	...
19	.....acres served ⁴ ...	1,040	...	...	1,040	...	...	...	...
20	Prior to 1950.....number of projects...	8	3	1	1	1	1	1	...
21	.....acres served ⁴ ...	65,870	16,100	1,000	1,530	44,000	1,800	1,440	...
DRAINAGE OPERATIONS, 1950-1959 ⁵									
22	Cost of drainage works and services.....projects reporting...	5	2	1	1	1	...	...	...
23	.....dollars...	558,392	132,639	2,460	270,000	153,293	...	...	...
24	New drainage works constructed, enlarged, or installed.....projects reporting...	3	...	1	1	1	...	...	...
25	.....dollars...	350,197	...	1,197	268,000	81,000	...	...	...
26	Open ditches.....projects reporting...	2	...	...	1	1	...	...	...
27	.....length, miles...	60.9	...	...	6.4	54.5	...	...	...
28	Tile or covered drains.....projects reporting...	2	...	1	1	...	...	...	...
29	.....length, miles...	3.6	...	0.2	3.4	...	...	...	...
30	Levees or dikes.....projects reporting...	...	...	...	...	...	...	...	...
31	.....length, miles...	...	...	...	...	...	...	...	...
32	Pumps.....projects reporting...	...	...	...	...	...	...	...	...
33	.....number of pumps...	...	...	...	...	...	...	...	...
34	Other (see text).....projects reporting...	...	...	...	...	...	...	...	...
35	Cost of maintenance, operation, repair, and administration.....projects reporting...	5	2	1	1	1	...	...	...
36	.....dollars...	208,195	132,639	1,263	2,000	72,293	...	...	...

¹Includes Carbon, Duchesne, Emery, Garfield, Grand, Juab, Kane, Rich, Salt Lake, Sanpete, Summit, Tooele, Uintah, Utah, Washington, Wayne, and Weber counties.²The excess of farm acreage over approximate land area is due to the fact that the entire acreage of a farm is tabulated as in the county in which the headquarters is located, even though a part of the farm may be situated in an adjoining county.³Land served by two or more projects counted only once.⁴Acres served by two projects are included for each project. See text.⁵Includes projects taken over by another project prior to 1960. See text.

State Table 1.—DRAINAGE PROJECTS—NUMBER, AREA, COST, AND WORKS, 1920 TO 1960

[See text for comparability of data]

Item	1960 Census	1950 Census	1940 Census	1930 Census	1920 Census
AREA					
Approximate land area.....acres...	25,496,320	25,531,520	25,535,360	25,767,680	25,767,680
Land in farms.....acres...	13,125,802	15,572,295	16,444,907	16,728,620	18,561,112
Drainage projects.....number...	66	30	2	NA	...
Total area in drainage projects.....acres served...	98,478	45,460	15,714	15,042	...
Area not used for agriculture or not drained.....acres served...	5,700	NA	NA	NA	...
Net area drained and used for agriculture.....acres served...	92,778	NA	¹ 15,714	¹ 5,704	...
Drainage established 10 years or more before Census date.....acres served...	40,807	NA	NA	NA	...
Drainage established within 10 years of Census date.....acres served...	51,971	NA	NA	NA	...
Area served by two or more projects.....acres served...	9,198	...	...	...	...
PROJECTS BY TYPE OF ORGANIZATION					
Drains owned by one landowner.....number of projects...	5	...	...	NA	...
.....acres served...	7,286	...	...	3,304	...
Cooperative or mutual drains.....number of projects...	59	28	...	...	...
.....acres served...	82,289	29,739	...	...	...
Legally organized public drains.....number of projects...	2	2	2	NA	...
.....acres served...	12,401	15,721	15,714	11,738	...
PROJECTS BY YEAR STARTED					
Started 10 years or more before Census date.....number of projects...	28	3	2	NA	...
.....acres served...	38,259	19,321	15,714	3,304	...
Started within 10 years of Census date.....number of projects...	38	27	...	NA	...
.....acres served...	63,717	25,939	...	11,738	...
OPERATIONS, 10-YEAR PERIOD PRECEDING CENSUS DATE					
Cost of drainage works and services.....projects reporting...	54	28	NA	NA	...
.....dollars...	401,765	111,394	NA	NA	...
New drainage works constructed, enlarged, or installed.....projects reporting...	22	² 27	NA	NA	...
.....cost, dollars...	215,992	² 95,794	NA	NA	...
Open ditches.....projects reporting...	22	27	NA	NA	...
.....length, miles...	45.2	59	NA	NA	...
Tile or covered drains.....projects reporting...	...	...	NA	NA	...
.....length, miles...	...	...	NA	NA	...
Levees or dikes.....projects reporting...	...	...	NA	NA	...
.....length, miles...	...	...	NA	NA	...
Pumps.....projects reporting...	...	NA	NA	NA	...
.....number of pumps...	...	NA	NA	NA	...
Other (see text).....projects reporting...	2	NA	NA	NA	...
Cost of maintenance, operation, repair, and administration.....projects reporting...	46	NA	NA	NA	...
.....dollars...	185,773	15,600	NA	NA	...
STATUS ON CENSUS DATE					
Capital investment.....dollars...	NA	NA	201,300	241,608	...
Physical works:					
Open ditches.....length, miles...	NA	NA	46.7	40.0	...
Tile drains.....length, miles...	NA	NA	...	...	...
Levees and dikes.....length, miles...	NA	NA	...	...	...
Pumping units.....number of units...	NA	...	...	...	...

NA Not available.

¹Not fully comparable. See text.²Cost of new works for lands not previously drained.

DRAINAGE OF AGRICULTURAL LANDS

State Table 2.—DRAINAGE

	Size of project (Based on area of agricultural land in project)	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
			Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
					Projects reporting	Acres	Projects reporting	Acres
1	All projects.....	66	101,976	18,396	36	45,479	37	56,497
2	500 to 999 acres.....	43	29,435	7,248	22	15,496	22	13,939
3	1,000 to 1,999 acres.....	11	14,792	3,493	8	9,217	5	5,575
4	2,000 to 4,999 acres.....	7	21,948	565	3	5,953	6	15,995
5	5,000 to 9,999 acres.....	4	25,553	7,090	2	4,565	4	20,988
6	10,000 to 19,999 acres.....	1	10,248	...	1	10,248	...	...
7	20,000 to 49,999 acres.....	...	...	...	...	...	...	...
8	50,000 to 99,999 acres.....	...	...	...	...	...	...	...
9	100,000 or more acres.....	...	...	...	...	...	...	...

State Table 3.—DRAINAGE PROJECTS, 1960,

	Type of organization	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
			Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
					Projects reporting	Acres	Projects reporting	Acres
1	All projects.....	66	101,976	18,396	36	45,479	37	56,497
2	Drains owned by one landowner.....	5	7,286	...	5	6,536	1	750
3	Cooperative or mutual drains.....	59	82,289	18,396	29	26,542	36	55,747
4	Legally organized public drains.....	2	12,401	...	2	12,401	...	...

State Table 4.—DRAINAGE PROJECTS, 1960,

	Year of organization	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
			Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
					Projects reporting	Acres	Projects reporting	Acres
1	All projects.....	66	101,976	18,396	36	45,479	37	56,497
2	1950-1959.....	38	63,717	13,924	8	8,553	35	55,164
3	Prior to 1950.....	28	38,259	4,472	28	36,926	2	1,333

[illegible][illegible][illegible]

DRAINAGE OF AGRICULTURAL LANDS

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

Item and Census year	The State	Accomack	Halifax	Norfolk	Northampton	Princess Anne	Southampton
AREA							
1 Approximate land area.....acres 1960...	25,496,320	300,800	513,280	263,680	144,640	163,200	388,480
2 Land in farms.....acres 1959...	13,125,802	112,191	402,534	75,775	67,066	60,383	260,793
3 Drainage projects..... number 1960...	66	1	1	15	2	48	2
4 1950...	30	...	...	9	...	21	...
5 Total area in drainage projects ¹ acres served 1960...	98,478	700	500	39,354	1,950	52,314	3,660
6 1950...	45,460	...	...	24,477	...	20,983	...
7 Area not used for agriculture or not drained..... acres served 1960...	5,700	...	...	...	...	5,700	...
8 Net area drained and used for agriculture..... acres served 1960...	92,778	700	500	39,354	1,950	46,614	3,660
9 Drainage established before 1950..... acres served 1960...	40,807	...	...	20,787	...	20,020	...
10 Area added, 1950-1959..... acres served 1960...	51,971	700	500	18,567	1,950	26,594	3,660
11 Area served by two or more projects..... acres served 1960...	9,198	...	...	...	...	9,198	...
PROJECTS, 1960, BY TYPE OF ORGANIZATION							
12 Drains owned by cos landowner..... number of projects...	5	...	...	5	...	...	...
13 acres served ² ...	7,286	...	...	7,286	...	...	...
14 Cooperative or mutual drains..... number of projects...	59	1	1	8	2	47	2
15 acres served ³ ...	82,289	700	500	20,037	1,950	55,442	3,660
16 Legally organized public drains..... number of projects...	2	...	...	2	...	1	...
17 acres served ³ ...	12,401	...	...	12,031	...	370	...
PROJECTS, 1960, BY YEAR STARTED							
18 1950-1959..... number of projects...	38	1	1	5	2	28	2
19 acres served ³ ...	63,717	700	500	17,234	1,950	39,673	3,660
20 Prior to 1950..... number of projects...	28	...	...	10	...	20	...
21 acres served ³ ...	38,259	...	...	22,120	...	16,139	...
DRAINAGE OPERATIONS, 1950-1959 ³							
22 Cost of drainage works and services.....projects reporting...	54	1	1	12	2	37	2
23 dollars...	401,765	3,742	2,100	63,854	50,362	255,719	25,988
24 New drainage works constructed, enlarged, or installed.....projects reporting...	22	1	1	5	2	12	2
25 dollars...	215,992	3,742	1,000	40,655	50,362	96,245	23,988
26 Open ditches.....projects reporting...	22	1	1	5	2	12	2
27 length, miles...	45.2	1.6	0.6	22.6	6.3	8.6	5.5
28 Tile or covered drains.....projects reporting...	...	...	...	...	...	...	...
29 length, miles...	...	...	...	...	...	...	...
30 Levees or dikes.....projects reporting...	...	...	...	...	...	...	...
31 length, miles...	...	...	...	...	...	...	...
32 Pumps.....projects reporting...	...	...	...	...	...	...	...
33 number of pumps...	...	...	...	...	...	...	...
34 Other (see text).....projects reporting...	2	...	...	...	2	...	...
35 Cost of maintenance, operation, repair, and administration.....projects reporting...	46	...	1	8	...	37	1
36 dollars...	185,773	...	1,100	23,199	...	159,474	2,000

¹Land served by two or more projects counted only once.²Acres served by two projects are included for each project. See text.³Includes projects taken over by another project prior to 1960. See text.

State Table 1.—DRAINAGE PROJECTS—NUMBER, AREA, COST, AND WORKS, 1920 TO 1960

[See text for comparability of data]

Item	1960 Census	1950 Census	1940 Census	1930 Census	1920 Census
AREA					
Approximate land area..... acres...	42,693,760	42,743,040	42,865,280	42,775,040	42,775,040
Land in farms..... acres...	18,716,972	17,369,245	15,181,815	13,533,778	13,244,720
Drainage projects..... number...	122	533	165	NA	NA
Total area in drainage projects..... acres served...	254,482	431,613	405,709	367,242	94,924
Area not used for agriculture or not drained..... acres served...	13,300	NA	NA	NA	NA
Net area drained and used for agriculture..... acres served...	241,182	NA	380,964	351,898	NA
Drainage established 10 years or more before Census date..... acres served...	227,696	NA	NA	NA	NA
Drainage established within 10 years of Census date..... acres served...	13,486	NA	NA	NA	NA
Area served by two or more projects..... acres served...	1,300	30,907	27,631	27,609	10,553
PROJECTS BY TYPE OF ORGANIZATION					
Drains owned by one landowner..... number of projects...	2	2 ¹	NA	NA	NA
..... acres served...	1,375	21,280	21,280	21,200	1,100
Cooperative or mutual drains..... number of projects...	20	2 ⁹	...	...	...
..... acres served...	20,374	28,205	...	...	...
Legally organized public drains..... number of projects...	100	2130	NA	NA	NA
..... acres served...	220,733	2263,423	2264,039	2275,642	93,824
PROJECTS BY YEAR STARTED					
Started 10 years or more before Census date..... number of projects...	108	2124	NA	NA	NA
..... acres served...	223,895	2248,497	390,883	288,599	243,166
Started within 10 years of Census date..... number of projects...	14	216	NA	NA	NA
..... acres served...	18,387	224,411	14,826	78,643	245,258
OPERATIONS, 10-YEAR PERIOD PRECEDING CENSUS DATE					
Cost of drainage works and services..... projects reporting...	114	2131	NA	NA	NA
..... dollars...	4,404,324	1,541,318	NA	NA	NA
New drainage works constructed, enlarged, or installed..... projects reporting...	49	324	NA	NA	NA
..... cost, dollars...	1,304,272	3203,873	NA	NA	NA
Open ditches..... projects reporting...	38	23	NA	NA	NA
..... length, miles...	97.8	55	NA	NA	NA
Tile or covered drains..... projects reporting...	6	4	NA	NA	NA
..... length, miles...	8.5	4	NA	NA	NA
Levees or dikes..... projects reporting...	11	4	NA	NA	NA
..... length, miles...	30.7	4	NA	NA	NA
Pumps..... projects reporting...	13	NA	NA	NA	NA
..... number of pumps...	17	NA	NA	NA	NA
Other (see text)..... projects reporting...	18	NA	NA	NA	NA
Cost of maintenance, operation, repair, and administration..... projects reporting...	108	NA	NA	NA	NA
..... dollars...	3,100,052	1,337,445	NA	NA	NA
STATUS ON CENSUS DATE					
Capital investment..... dollars...	NA	NA	5,332,842	4,637,576	1,397,419
Physical works:					
Open ditches..... length, miles...	NA	NA	885.0	746.7	162.4
Tile drains..... length, miles...	NA	NA	179.0	199.2	83.0
Levees and dikes..... length, miles...	NA	NA	72.4	78.8	...
Pumping units..... number of units...	NA	243	24	18	...

NA Not available.

¹Not fully comparable. See text.²1950 figures exclude 393 projects and 158,705 acres in "irrigation enterprises"; 1940 figures exclude 140,390 acres in "irrigation enterprises"; 1930 figures exclude 90,000 acres in "irrigation enterprises" and 400 acres classed as "other"; 1920 figures exclude 6,500 acres for which date of organization was not reported.³Cost of new works for lands not previously drained.

State Table 2.—DRAINAGE

Size of project (Based on area of agricultural land in project)	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
		Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
				Projects reporting	Acres	Projects reporting	Acres
1 All projects.....	122	242,482	2,600	112	228,996	17	13,486
2 500 to 999 acres.....	50	34,970	...	43	29,595	10	5,375
3 1,000 to 1,999 acres.....	35	50,138	1,300	33	47,208	4	2,930
4 2,000 to 4,999 acres.....	25	73,502	...	24	69,042	2	4,460
5 5,000 to 9,999 acres.....	11	72,372	1,300	11	71,651	1	721
6 10,000 to 19,999 acres.....	1	11,500	...	1	11,500	...	...
7 20,000 to 49,999 acres.....	...	...	...	...	...	...	...
8 50,000 to 99,999 acres.....	...	...	...	...	...	...	...
9 100,000 or more acres.....	...	...	...	...	...	...	...

¹Includes projects taken over by another project prior to 1960. See text.

State Table 3.—DRAINAGE PROJECTS, 1960,

Type of organization	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
		Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
				Projects reporting	Acres	Projects reporting	Acres
1 All projects.....	122	242,482	2,600	112	228,996	17	13,486
2 Drains owned by one landowner.....	2	1,375	...	1	675	1	700
3 Cooperative or mutual drains.....	20	20,374	...	15	15,674	7	4,700
4 Legally organized public drains.....	100	220,733	2,600	96	212,647	9	8,086

¹Includes projects taken over by another project prior to 1960. See text.

State Table 4.—DRAINAGE PROJECTS, 1960,

Year of organization	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
		Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
				Projects reporting	Acres	Projects reporting	Acres
1 All projects.....	122	242,482	2,600	112	228,996	17	13,486
2 1960-1969.....	14	18,587	1,300	4	7,119	12	11,468
3 Prior to 1950.....	108	223,995	1,300	108	221,877	5	2,018

PROJECTS, 1960, BY SIZE

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959								
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	
114	4,404,324	49	1,304,272	38	97.8	6	8.5	11	30.7	13	17	18
44	619,899	17	269,851	14	19.2	3	2.4	6	10.9	4	6	5
31	897,815	14	402,215	9	22.8	1	4.9	3	1.3	3	3	7
25	1,235,651	12	524,853	10	30.6	1	0.2	2	18.5	5	7	6
113	1,538,187	5	80,353	4	24.7	...	...	...	...	1	1	...
1	112,772	1	27,000	1	0.5	1	1.0	...	...	...	...	...
...
...
...
...

BY TYPE OF ORGANIZATION

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959								
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	
114	4,404,324	49	1,304,272	38	97.8	6	8.5	11	30.7	13	17	18
13	205,000	3	125,000	3	5.2	...	...	3	13.1	2	3	1
18	191,085	12	93,911	11	16.9	1	0.1	3	3.5	1	1	6
93	4,008,239	34	1,085,361	24	75.7	5	8.4	5	14.1	10	13	11

BY YEAR OF ORGANIZATION

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959								
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	
114	4,404,324	49	1,304,272	38	97.8	6	8.5	11	30.7	13	17	18
14	680,014	13	585,334	11	33.9	4	7.3	4	22.5	4	4	5
100	3,724,310	36	718,938	27	63.9	2	1.2	7	8.2	9	13	13

DRAINAGE OF AGRICULTURAL LANDS

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

Item and Census year		The State	Clark	Cowlitz	Grant	Grays Harbor	Island	Jefferson
AREA								
1	Approximate land area.....acres 1960...	42,693,760	403,200	731,520	1,721,600	1,219,200	131,840	1,159,680
2	Land in farms.....acres 1959...	18,716,972	188,479	80,176	1,075,642	99,529	38,702	35,123
3	Drainage projects.....number 1960...	122	11	5	1	2	7	2
4	.....1950...	533	22	10	2	6	5	6
5	Total area in drainage projects ¹.....acres served 1960...	254,482	17,960	25,482	1,280	2,336	7,245	6,990
6	.....1950...	431,613	12,300	10,269	1,405	2,356	3,080	7,090
7	Area not used for agriculture or not drained.....acres served 1960...	13,300	...	10,000	...	...	...	...
8	Net area drained and used for agriculture.....acres served 1960...	241,182	17,960	15,482	1,280	2,336	7,245	6,990
9	Drainage established before 1950.....acres served 1960...	227,696	11,425	15,482	1,280	2,336	7,245	6,990
10	Area added, 1950-1959.....acres served 1960...	13,486	6,535	...	...	...	...	...
11	Area served by two or more projects.....acres served 1960...	1,300	...	1,300	...	...	...	...
PROJECTS, 1980, BY TYPE OF ORGANIZATION								
12	Drains owned by one landowner.....number of projects...	2	1	...	...	...	...	...
13	.....acres served ² ...	1,375	675	...	...	...	...	...
14	Cooperative or mutual drains.....number of projects...	20	2	...	1	...	...	1
15	.....acres served ² ...	20,374	1,850	...	1,280	...	...	960
16	Legally organized public drains.....number of projects...	100	8	5	...	2	7	1
17	.....acres served ² ...	220,733	15,435	16,782	...	2,336	7,245	6,030
PROJECTS, 1960, BY YEAR STARTED								
18	1950-1959.....number of projects...	14	5	1	...	...	...	...
19	.....acres served ² ...	18,587	6,535	1,300	...	...	...	...
20	Prior to 1950.....number of projects...	108	6	4	1	2	7	2
21	.....acres served ² ...	223,895	11,425	15,482	1,280	2,336	7,245	6,990
DRAINAGE OPERATIONS, 1950-1959 ³								
22	Cost of drainage works and services.....projects reporting...	114	12	5	1	2	6	(⁴)
23	.....dollars...	4,404,324	532,821	1,322,171	12,000	8,416	26,427	(⁴)
24	New drainage works constructed, enlarged, or installed.....projects reporting...	49	10	2	...	...	2	...
25	.....dollars...	1,304,272	448,008	72,368	...	...	10,633	...
26	Open ditches.....projects reporting...	38	9	1	...	...	2	...
27	.....length, miles...	97.8	21.6	9.0	...	...	2.5	...
28	Tile or covered drains.....projects reporting...	6	3	...	...	...	...	...
29	.....length, miles...	8.5	2.4	...	...	...	...	...
30	Levees or dikes.....projects reporting...	11	5	...	...	...	...	...
31	.....length, miles...	30.7	28.1	...	...	...	...	...
32	Pumps.....projects reporting...	13	4	1	...	...	1	...
33	.....number of pumps...	17	5	1	...	...	1	...
34	Other (see text).....projects reporting...	18	5	...	...	...	...	...
35	Cost of maintenance, operation, repair, and administration.....projects reporting...	108	12	5	1	2	6	(⁴)
36	.....dollars...	3,100,052	84,813	1,249,803	12,000	8,416	15,794	(⁴)

¹Land served by two or more projects counted only once.²Acres served by two projects are included for each project. See text.³Includes projects taken over by another project prior to 1960. See text.⁴Included in State total only.

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

Item and Census year	King	Klickitat	Lewis	Pacific	Pierce	San Juan	Skagit
AREA							
1 Approximate land area.....acres 1960...	1,365,760	1,219,200	1,566,080	592,000	1,072,640	110,080	1,110,400
2 Land in farms.....acres 1959.....	114,719	960,614	255,012	53,348	153,363	45,707	141,770
3 Drainage projects..... number 1960.....	8	1	6	9	8	3	14
4 1950.....	54	4	20	13	58	2	19
5 Total area in drainage projects ¹ acres served 1960.....	17,837	8,234	8,629	11,600	10,036	2,775	51,702
6 1950.....	19,064	10,954	8,818	4,586	10,771	2,275	46,809
7 Area not used for agriculture or not drained..... acres served 1960.....	2,700	...	...	600	...	...	...
8 Net area drained and used for agriculture..... acres served 1960.....	15,137	8,234	8,629	11,000	10,036	2,775	51,702
9 Drainage established before 1960..... acres served 1960.....	15,137	8,234	8,629	9,600	10,036	2,275	50,774
10 Area added, 1950-1959..... acres served 1960.....	...	...	...	1,400	...	500	928
11 Area served by two or more projects..... acres served 1960.....	...	...	...	...	...	...	...
PROJECTS, 1960, BY TYPE OF ORGANIZATION							
12 Drains owned by one landowner..... number of projects.....	...	...	...	1	...	...	...
13 acres served ².....	...	...	...	700	...	...	...
14 Cooperative or mutual drains..... number of projects.....	...	...	1	6	...	1	1
15 acres served ³.....	...	...	809	6,500	...	500	1,100
16 Legally organized public drains..... number of projects.....	8	1	5	2	8	2	13
17 acres served ³	15,137	8,234	7,820	3,800	10,036	2,275	50,602
PROJECTS, 1960, BY YEAR STARTED							
18 1950-1959..... number of projects.....	...	...	...	2	...	1	1
19 acres served ³.....	...	...	...	1,400	...	500	630
20 Prior to 1950..... number of projects.....	8	1	6	7	8	2	13
21 acres served ³	15,137	8,234	8,629	9,600	10,036	2,275	51,072
DRAINAGE OPERATIONS, 1950-1959 ⁴							
22 Cost of drainage works and services..... projects reporting.....	8	1	4	9	8	(⁴)	14
23 dollars.....	154,777	10,100	17,943	103,992	93,546	(⁴)	930,827
24 New drainage works constructed, enlarged, or installed..... projects reporting.....	1	1	...	5	...	(⁴)	13
25 dollars.....	2,000	3,793	...	16,200	...	(⁴)	114,176
26 Open ditches..... projects reporting.....	1	1	...	5	...	(⁴)	8
27 length, miles.....	0.2	22.5	...	5.5	...	(⁴)	9.5
28 Tile or covered drains..... projects reporting.....	...	...	...	...	...	...	1
29 length, miles.....	...	...	...	...	...	...	1.0
30 Levees or dikes..... projects reporting.....	...	...	...	1	...	...	2
31 length, miles.....	...	...	...	0.8	...	...	0.7
32 Pumps..... projects reporting.....	...	...	...	...	...	...	5
33 number of pumps.....	...	...	...	...	...	...	6
34 Other (see text)..... projects reporting.....	...	...	...	2	...	...	5
35 Cost of maintenance, operation, repair, and administration..... projects reporting.....	8	1	4	7	8	...	14
36 dollars.....	152,777	6,307	17,943	87,792	93,546	...	816,651

¹Land served by two or more projects counted only once.²Acres served by two projects are included for each project. See text.³Includes projects taken over by another project prior to 1960. See text.⁴Included in State total only.

DRAINAGE OF AGRICULTURAL LANDS

County Table 1.—DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data.]

	Item and Census year	Snohomish	Spokane	Stevens	Thurston	Wahkiakum	Whatcom	Yakima	All other counties ¹
AREA									
1	Approximate land area.....acres 1960...	1,344,000	1,128,320	1,591,040	458,880	172,160	1,365,760	2,734,720	16,667,520
	Land in farms.....acres 1959...	148,604	822,008	803,776	142,170	26,299	185,045	1,884,694	8,684,990
3	Drainage projects.....number 1960...	14	1	2	5	4	20	1	...
4	.....1950...	23	4	13	6	3	58	90	123
5	Total area in drainage projects ².....acres served 1960...	25,017	525	2,840	6,539	8,126	38,297	1,032	...
6	.....1950...	20,783	563	3,587	3,285	7,169	33,774	186,806	35,869
7	Area not used for agriculture or not drained.....acres served 1960...	...	...	...	...	...	...	...	...
8	Net area drained and used for agriculture.....acres served 1960...	25,017	525	2,840	6,539	8,126	38,297	1,032	...
9	Drainage established before 1950.....acres served 1960...	25,017	525	2,840	6,539	8,126	35,506	...	...
10	Area added, 1950-1959.....acres served 1960...	...	...	300	...	...	2,791	1,032	...
11	Area served by two or more projects.....acres served 1960...	...	...	...	...	...	...	...	...
PROJECTS, 1960, BY TYPE OF ORGANIZATION									
12	Drains owned by one landowner.....number of projects...	...	...	...	...	...	...	...	...
13	.....acres served ³...	...	...	...	...	...	...	...	...
14	Cooperative or mutual drains.....number of projects...	1	...	2	...	1	3	...	...
15	.....acres served ³ ...	750	...	2,840	...	1,100	2,685	...	...
16	Legally organized public drains.....number of projects...	13	1	...	5	3	17	1	...
17	.....acres served ³ ...	24,267	525	...	6,539	7,026	35,612	1,032	...
PROJECTS, 1960, BY YEAR STARTED									
18	1950-1959.....number of projects...	...	...	...	1	...	2	1	...
19	.....acres served ³...	...	...	...	800	...	6,390	1,032	...
20	Prior to 1950.....number of projects...	14	1	2	4	4	18	...	...
21	.....acres served ³ ...	25,017	525	2,840	5,739	8,126	31,907	...	...
DRAINAGE OPERATIONS, 1950-1959 ⁴									
22	Cost of drainage works and services.....projects reporting...	15	...	(⁵)	5	4	16	1	...
	.....dollars...	378,043	...	(⁵)	24,229	370,369	157,560	238,590	...
24	New drainage works constructed, enlarged, or installed.....projects reporting...	3	...	(⁵)	...	3	6	1	...
25	.....dollars...	18,500	...	(⁵)	...	291,369	82,872	238,590	...
26	Open ditches.....projects reporting...	2	...	(⁵)	...	2	5	...	...
27	.....length, miles...	1.4	...	(⁵)	...	8.5	13.1	...	...
28	Tile or covered drains.....projects reporting...	...	...	...	...	...	1	1	...
29	.....length, miles...	...	...	...	...	...	0.2	4.9	...
30	Levees or dikes.....projects reporting...	2	...	(⁵)	...	...	...	...	...
31	.....length, miles...	0.6	...	(⁵)	...	...	...	...	...
32	Pumps.....projects reporting...	...	...	...	...	2	...	...	...
33	.....number of pumps...	...	...	...	...	4	...	...	...
34	Other (see text).....projects reporting...	1	...	...	...	3	2	...	...
35	Cost of maintenance, operation, repair, and administration.....projects reporting...	15	...	(⁵)	5	3	15	...	...
36	.....dollars...	359,543	...	(⁵)	24,229	79,000	74,688	...	...

¹Includes Adams, Benton, Chelan, Clallam, Columbia, Douglas, Ferry, Kitsap, Kittitas, Okanogan, Pend Oreille, Walla Walla, and Whitman counties.²Land served by two or more projects counted only once.³Acres served by two projects are included for each project. See text.⁴Includes projects taken over by another project prior to 1960. See text.⁵Included in State total only.

State Table 1.—DRAINAGE PROJECTS—NUMBER, AREA, COST, AND WORKS, 1920 TO 1960

[See text for comparability of data.]

Item	1960 Census	1950 Census	1940 Census	1930 Census	1920 Census
AREA					
Approximate land area.....acres...	35,011,200	35,011,200	35,017,600	35,363,840	35,363,840
Land in farms.....acres...	21,156,223	23,221,095	22,876,494	21,874,155	22,148,223
Drainage projects.....number...	235	206	396	NA	NA
Total area in drainage projects.....acres served...	587,803	514,700	761,203	892,713	794,569
Area not used for agriculture or not drained.....acres served...	3,710	NA	NA	NA	NA
Net area drained and used for agriculture.....acres served...	584,093	NA	¹ 561,723	¹ 574,892	NA
Drainage established 10 years or more before Census date.....acres served...	536,444	NA	NA	NA	NA
Drainage established within 10 years of Census date.....acres served...	47,649	NA	NA	NA	NA
Area served by two or more projects.....acres served...	4,770	1,720	11,790	2,985	...
PROJECTS BY TYPE OF ORGANIZATION					
Drains owned by one landowner.....number of projects...	7	1	NA	NA	NA
.....acres served...	8,055	700	² 3,600	5,710	(²)
Cooperative or mutual drains.....number of projects...	17	...	...	...	...
.....acres served...	23,834	...	...	...	...
Legally organized public drains.....number of projects...	211	205	NA	NA	NA
.....acres served...	556,974	514,000	² 721,603	887,003	² 790,489
PROJECTS BY YEAR STARTED					
Started 10 years or more before Census date.....number of projects...	203	186	NA	NA	NA
.....acres served...	533,314	471,714	754,393	760,911	³ 462,696
Started within 10 years of Census date.....number of projects...	32	20	NA	NA	NA
.....acres served...	55,549	42,986	6,810	131,802	³ 329,526
OPERATIONS, 10-YEAR PERIOD PRECEDING CENSUS DATE					
Cost of drainage works and services.....projects reporting...	140	92	NA	NA	NA
.....dollars...	1,579,398	610,918	NA	NA	NA
New drainage works constructed, enlarged, or installed.....projects reporting...	45	⁴ 15	NA	NA	NA
.....cost, dollars...	598,533	⁴ 296,176	NA	NA	NA
Open ditches.....projects reporting...	40	15	NA	NA	NA
.....length, miles...	261.8	76	NA	NA	NA
Tile or covered drains.....projects reporting...	12	3	NA	NA	NA
.....length, miles...	78.5	10	NA	NA	NA
Levees or dikes.....projects reporting...	5	...	NA	NA	NA
.....length, miles...	12.0	...	NA	NA	NA
Pumps.....projects reporting...	5	NA	NA	NA	NA
.....number of pumps...	8	NA	NA	NA	NA
Other (see text).....projects reporting...	1	NA	NA	NA	NA
Cost of maintenance, operation, repair, and administration.....projects reporting...	118	NA	NA	NA	NA
.....dollars...	980,865	314,742	NA	NA	NA
STATUS ON CENSUS DATE					
Capital investment.....dollars...	NA	NA	4,254,586	6,207,278	4,163,055
Physical works:					
Open ditches.....length, miles...	NA	NA	1,580.7	1,989.4	1,691.3
Tile drains.....length, miles...	NA	NA	282.5	303.4	211.3
Levees and dikes.....length, miles...	NA	NA	8.0	9.0	7.7
Pumping units.....number of units...	NA	...	NA	1	NA

NA Not available.

¹Not fully comparable. See text.²1940 figures by type of project exclude 36,000 acres reported as "other"; 1920 figures by type of project exclude 4,080 acres reported as "other."³1920 figures do not include 2,347 acres for which date of organization was not reported.⁴Cost of new works for lands not previously drained.

DRAINAGE OF AGRICULTURAL LANDS

State Table 2.—DRAINAGE

Size of project (Based on area of agricultural land in project)	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
		Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
				Projects reporting	Acres	Projects reporting	Acres
1 All projects.....	235	588,863	9,540	209	541,214	36	47,649
2 500 to 999 acres.....	68	48,510	1,230	54	38,895	16	9,615
3 1,000 to 1,999 acres.....	88	124,894	5,010	80	111,917	12	12,977
4 2,000 to 4,999 acres.....	56	165,204	880	52	153,897	6	11,347
5 5,000 to 9,999 acres.....	16	103,960	2,420	16	103,960	...	...
6 10,000 to 19,999 acres.....	6	90,295	...	6	76,585	2	13,710
7 20,000 to 49,999 acres.....	...	...	...	...	...	...	...
8 50,000 to 99,999 acres.....	1	56,000	...	1	56,000	...	...
9 100,000 or more acres.....	...	...	...	...	...	...	...

State Table 3.—DRAINAGE PROJECTS, 1960,

Type of organization	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
		Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
				Projects reporting	Acres	Projects reporting	Acres
1 All projects.....	235	588,863	9,540	209	541,214	36	47,649
2 Drains owned by one landowner.....	7	8,055	...	2	1,700	6	6,355
3 Cooperative or mutual drains.....	17	23,834	480	7	14,604	12	9,230
4 Legally organized public drains.....	211	556,974	9,060	200	524,910	18	32,064

State Table 4.—DRAINAGE PROJECTS, 1960,

Year of organization	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
		Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
				Projects reporting	Acres	Projects reporting	Acres
1 All projects.....	235	588,863	9,540	209	541,214	36	47,649
2 1950-1959.....	32	55,549	2,650	6	10,660	28	44,889
3 Prior to 1950.....	203	533,314	6,890	203	530,554	8	2,760

PROJECTS, 1960, BY SIZE

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959									Other, projects reporting
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps			
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number		
140	1,579,398	45	598,533	40	261.8	12	78.5	5	12.0	5	8	1	
38	183,110	17	133,974	16	110.7	3	45.2	3	6.8	4	7	1	
49	298,769	16	194,661	13	74.9	5	25.9	1	3.2	1	1	...	
37	367,103	7	78,598	6	26.0	1	1.8	...	...	...	...	...
10	329,854	2	27,100	2	7.1	1	2.2	...	...	...	...	...
5	400,216	3	164,200	3	43.1	2	3.4	1	2.0	...	...	...
...	
1	346	...	...	...	...	...	...	...	...	...	...	...
...	

BY TYPE OF ORGANIZATION

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959										
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting		
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number			
140	1,579,398	45	598,533	40	261.8	12	78.5	5	12.0	5	8	1	1	
7	114,900	7	104,500	6	39.5	3	51.1	3	6.8	4	6	...	2	
15	124,255	11	82,160	11	115.2	2	12.3	...	...	...	...	1	3
118	1,340,243	27	411,873	23	107.1	7	15.1	2	5.2	1	2	...	4	

BY YEAR OF ORGANIZATION

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959								
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	
140	1,579,398	45	598,533	40	261.8	12	78.5	5	12.0	5	8	1
32	455,667	29	409,802	28	224.0	6	61.0	4	10.0	4	6	1
108	1,123,731	16	188,731	12	37.8	6	17.5	1	2.0	1	2	...

DRAINAGE OF AGRICULTURAL LANDS

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

	Item and Census year	The State	Adams	Barron	Brown	Buffalo	Burnett	Calumet	Columbia	Dane	Dodge
AREA											
1	Approximate land area.....acres 1960...	35,011,200	433,280	554,240	336,000	455,680	537,600	201,600	497,920	766,080	570,880
2	Land in farms.....acres 1959...	21,156,223	171,812	466,724	292,995	385,678	163,370	190,327	411,128	682,960	501,945
3	Drainage projects.....number 1960...	235	3	2	3	1	1	1	18	33	11
4	1950...	206	2	2	3	...	1	1	16	25	5
5	Total area in drainage projects ¹.....acres served 1960...	587,803	20,510	1,520	4,960	575	1,760	1,060	28,525	61,818	9,047
6	1950...	514,700	17,310	1,520	4,960	...	1,760	1,060	24,130	52,943	3,384
7	Area not used for agriculture or not drained.....acres served 1960...	3,710	...	...	...	...	...	...	...	1,200	...
8	Net area drained and used for agriculture.....acres served 1960...	584,093	20,510	1,520	4,960	575	1,760	1,060	28,525	60,618	9,047
9	Drainage established before 1950.....acres served 1960...	536,444	17,310	1,520	4,960	...	1,760	1,060	25,625	56,303	9,047
10	Area added, 1950-1959.....acres served 1960...	47,649	3,200	...	...	575	...	...	2,900	4,315	...
11	Area served by two or more projects.....acres served 1960...	4,770	...	...	...	...	...	...	750	1,900	...
PROJECTS, 1960, BY TYPE OF ORGANIZATION											
12	Drains owned by one landowner.....number of projects...	7	1	...	...	1	...	...	1	...	...
13	acres served ² ...	8,055	3,200	...	...	575	...	...	1,000	...	...
14	Cooperative or mutual drains.....number of projects...	17	...	...	...	...	...	...	2	1	1
15	acres served ² ...	23,834	...	...	...	...	...	...	2,500	600	240
16	Legally organized public drains.....number of projects...	211	2	2	3	...	1	1	15	32	10
17	acres served ² ...	556,974	17,310	1,520	4,960	...	1,760	1,060	25,775	61,918	8,807
PROJECTS, 1960, BY YEAR STARTED											
18	1950-1959.....number of projects...	32	1	...	...	1	...	...	4	7	...
19	acres served ² ...	55,549	3,200	...	...	575	...	...	4,360	8,915	...
20	Prior to 1950.....number of projects...	203	2	2	3	...	1	1	14	26	11
21	acres served ² ...	533,314	17,310	1,520	4,960	...	1,760	1,060	24,915	53,603	9,047
DRAINAGE OPERATIONS, 1950-1959 ³											
22	Cost of drainage works and services.....projects reporting...	140	2	...	2	1	...	...	12	26	3
23	dollars...	1,579,398	5,050	...	10,589	10,000	...	...	104,131	114,266	22,822
24	New drainage works constructed, enlarged, or installed.....projects reporting...	45	1	...	...	1	...	...	7	6	...
25	dollars...	598,533	4,000	...	...	10,000	...	...	58,413	41,180	...
26	Open ditches.....projects reporting...	40	1	...	...	1	...	...	4	6	...
27	length, miles...	261.8	5.0	...	...	7.7	...	...	17.0	12.5	...
28	Tile or covered drains.....projects reporting...	12	...	...	...	...	...	...	2	...	...
29	length, miles...	78.5	...	...	...	...	...	...	13.4	...	...
30	Levees or dikes.....projects reporting...	5	...	...	...	1	...	...	...	...	...
31	length, miles...	12.0	...	...	...	3.3	...	...	...	...	...
32	Pumps.....projects reporting...	5	...	...	...	1	...	...	2	...	...
33	number of pumps...	8	...	...	...	2	...	...	3	...	...
34	Other (see text).....projects reporting...	1	...	...	...	...	...	...	...	...	...
35	Cost of maintenance, operation, repair, and administration.....projects reporting...	118	2	...	2	...	...	...	9	26	3
36	dollars...	980,865	1,050	...	10,589	...	...	...	45,718	73,086	22,822

¹Land served by two or more projects counted only once.²Acres served by two projects are included for each project. See text.³Includes projects taken over by another project prior to 1960. See text.

County Table 1. --DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data.]

Item and Census year		Fond du Lac	Green	Green Lake	Jefferson	Juneau	Kenosha	Manitowoc	Marinette	Marquette	Milwaukee
AREA											
1	Approximate land area.....acres 1960...	463,360	375,040	227,200	360,960	508,800	174,720	376,960	888,320	292,480	152,960
2	Land in farms.....acres 1959...	409,776	361,739	188,643	310,500	219,103	123,495	336,144	277,242	213,844	32,848
3	Drainage projects.....number 1960...	13	6	2	45	4	7	3	3	3	3
4	1950...	12	5	2	33	4	6	2	2	1	5
5	Total area in drainage projects ¹.....acres served 1960...	14,682	7,800	4,320	65,456	7,180	16,500	4,542	23,040	4,630	2,590
6	1950...	14,412	6,400	4,320	44,980	8,580	15,700	3,510	6,760	700	5,890
7	Area not used for agriculture or not drained.....acres served 1960...	...	...	...	...	...	...	...	640	...	540
8	Net area drained and used for agriculture.....acres served 1960...	14,682	7,800	4,320	65,456	7,180	16,500	4,542	22,400	4,630	2,050
9	Drainage established before 1950.....acres served 1960...	14,412	6,600	4,320	64,006	6,280	15,700	3,510	6,120	700	2,050
10	Area added, 1950-1959.....acres served 1960...	270	1,200	...	1,450	900	800	1,032	16,280	3,930	...
11	Area served by two or more projects.....acres served 1960...	480	...	...	...	...	...	...	...	...	...
PROJECTS, 1960, BY TYPE OF ORGANIZATION											
12	Drains owned by one landowner.....number of projects...	...	...	...	...	1	...	...	...	1	...
13	acres served ²...	...	...	...	...	900	...	...	...	1,160	...
14	Cooperative or mutual drains.....number of projects...	1	...	...	4	...	1	...	...	1	...
15	acres served ³ ...	750	...	...	6,884	...	800	...	...	1,560	...
16	Legally organized public drains.....number of projects...	12	6	2	41	3	6	3	3	1	3
17	acres served ² ...	14,412	7,800	4,320	58,572	6,280	15,700	4,542	22,400	1,910	2,050
PROJECTS, 1960, BY YEAR STARTED											
18	1950-1959.....number of projects...	...	1	...	2	1	1	1	2	2	...
19	acres served ²...	...	1,200	...	1,450	900	800	1,032	20,280	3,470	...
20	Prior to 1950.....number of projects...	13	5	2	43	3	6	2	1	1	3
21	acres served ² ...	15,162	6,600	4,320	64,006	6,280	15,700	3,510	2,120	1,160	2,050
DRAINAGE OPERATIONS, 1950-1959 ⁴											
22	Cost of drainage works and services.....projects reporting...	2	4	1	38	3	5	1	2	3	1
23	dollars...	12,600	53,718	135	78,953	12,400	20,760	18,532	90,493	57,600	820
24	New drainage works constructed, enlarged, or installed.....projects reporting...	(4)	1	...	2	(4)	...	1	2	3	...
25	dollars...	(4)	28,000	...	4,030	(4)	...	18,532	80,000	52,000	...
26	Open ditches.....projects reporting...	(4)	1	...	2	(4)	...	1	2	3	...
27	length, miles...	(4)	5.0	...	4.0	(4)	...	1.3	43.0	40.5	...
28	Tile or covered drains.....projects reporting...	(4)	...	...	...	(4)	...	1	1	1	...
29	length, miles...	(4)	...	...	...	(4)	...	1.9	0.4	7.6	...
30	Levees or dikes.....projects reporting...	...	...	...	...	...	...	...	...	1	...
31	length, miles...	...	...	...	...	...	...	...	...	3.2	...
32	Pumps.....projects reporting...	...	...	...	...	...	...	...	...	...	...
33	number of pumps...	...	...	...	...	...	...	...	...	...	...
34	Other (see text).....projects reporting...	...	...	...	...	...	...	...	...	...	...
35	Cost of maintenance, operation, repair, and administration.....projects reporting...	(4)	3	1	37	(4)	5	...	1	1	1
36	dollars...	(4)	25,718	135	74,923	(4)	20,760	...	10,493	5,600	820

¹Land served by two or more projects counted only once.²Acres served by two projects are included for each project. See text.³Includes projects taken over by another project prior to 1960. See text.⁴Included in State total only.

DRAINAGE OF AGRICULTURAL LANDS

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data.]

Item and Census year		Monroe	Oeonto	Outagamie	Ozaukee	Polk	Portage	Racine	Richland	Rock	Rusk
AREA											
1	Approximate land area.....acres 1960...	585,600	707,840	405,760	150,400	597,760	518,400	215,680	373,760	461,440	582,400 ¹
2	Land in farms.....acres 1959...	412,740	325,224	345,935	116,827	438,147	399,278	149,391	351,672	417,586	265,746
3	Drainage projects.....number 1960...	1	4	17	5	3	2	10	1	9	1
4	.....1950...	1	1	15	5	3	2	9	1	7	1
5	Total area in drainage projects ¹.....acres served 1960...	13,000	16,360	38,272	6,870	3,400	58,560	60,280	880	27,840	1,250
6	.....1950...	13,000	8,960	37,282	6,870	3,400	58,560	52,780	880	24,840	1,250
7	Area not used for agriculture or not drained.....acres served 1960...	...	...	1,330	...	...	...	...	...	...	...
8	Net area drained and used for agriculture.....acres served 1960...	13,000	16,360	37,242	6,870	3,400	58,560	60,280	880	27,840	1,250
9	Drainage established before 1950.....acres served 1960...	13,000	15,360	35,992	6,870	3,400	58,560	59,850	880	24,840	1,250
10	Area added, 1950-1959.....acres served 1960...	...	1,000	1,250	...	...	...	430	...	3,000	...
11	Area served by two or more projects.....acres served 1960...	...	...	...	...	...	...	...	...	...	...
PROJECTS, 1960, BY TYPE OF ORGANIZATION											
12	Drains owned by one landowner.....number of projects...	...	...	...	...	...	...	...	...	...	...
13	.....acres served ²...	...	...	...	...	...	...	...	...	...	...
14	Cooperative or mutual drains.....number of projects...	...	3	2	...	...	...	...	...	1	...
15	.....acres served ²...	...	7,400	1,250	...	...	...	...	...	1,100	...
16	Legally organized public drains.....number of projects...	1	1	15	5	3	2	10	1	8	1
17	.....acres served ² ...	13,000	8,960	35,992	6,870	3,400	58,560	60,280	880	26,740	1,250
PROJECTS, 1960, BY YEAR STARTED											
18	1950-1959.....number of projects...	...	2	2	...	...	...	...	...	2	...
19	.....acres served ²...	...	1,000	1,250	...	...	...	...	...	2,500	...
20	Prior to 1950.....number of projects...	1	2	15	5	3	2	10	1	7	1
21	.....acres served ² ...	13,000	15,360	35,992	6,870	3,400	58,560	60,280	880	25,340	1,250
DRAINAGE OPERATIONS, 1950-1959 ³											
22	Cost of drainage works and services.....projects reporting...	1	3	6	2	1	1	9	...	8	...
23	.....dollars...	8,000	14,400	27,052	475	4,101	346	709,509	...	96,097	...
24	New drainage works constructed, enlarged, or installed.....projects reporting...	...	2	2	...	...	...	4	...	5	...
25	.....dollars...	...	14,200	9,500	...	...	...	132,907	...	49,400	...
26	Open ditches.....projects reporting...	...	2	2	...	...	...	3	...	5	...
27	.....length, miles...	...	2.9	72.0	...	...	...	13.2	...	14.5	...
28	Tile or covered drains.....projects reporting...	...	...	...	...	...	...	3	...	...	...
29	.....length, miles...	...	...	...	...	...	...	7.0	...	...	...
30	Levees or dikes.....projects reporting...	...	...	...	...	...	...	1	...	...	...
31	.....length, miles...	...	...	...	...	...	...	2.0	...	...	...
32	Pumps.....projects reporting...	...	...	...	...	...	...	...	...	...	...
33	.....number of pumps...	...	...	...	...	...	...	...	...	...	...
34	Other (see text).....projects reporting...	...	1	...	...	...	...	...	...	...	...
35	Cost of maintenance, operation, repair, and administration.....projects reporting...	1	1	4	2	1	1	9	...	7	...
36	.....dollars...	8,000	200	17,552	475	4,101	346	576,602	...	46,697	...

¹Land served by two or more projects counted only once.²Acres served by two projects are included for each project. See text.³Includes projects taken over by another project prior to 1960. See text.

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data.]

Item and Census year	Sauk	Shawano	Sheboygan	Walworth	Washington	Waukesha	Waupaca	Waushara	Winnebago	All other counties ¹
AREA										
1 Approximate land area.....acres 1960...	537,600	752,640	323,840	358,400	273,920	355,840	480,640	401,920	290,560	819,840
2 Land in farms.....acres 1959...	460,193	451,245	275,649	306,290	218,120	230,728	367,670	272,880	236,621	572,422
3 Drainage projects.....number 1960...	1	5	5	3	4	8	8	10	4	...
4 1950...	1	5	6	3	5	8	8	9	3	4
5 Total area in drainage projects ².....acres served 1960...	4,400	10,990	3,906	13,380	7,200	11,141	9,680	12,650	6,929	...
6 1950...	4,400	10,990	4,546	13,380	8,260	8,574	9,680	12,050	6,179	10,500
7 Area not used for agriculture or not drained.....acres served 1960...	...	...	...	...	...	...	...	...	...	...
8 Net area drained and used for agriculture.....acres served 1960...	4,400	10,990	3,906	13,380	7,200	11,141	9,680	12,650	6,929	...
9 Drainage established before 1950.....acres served 1960...	4,400	10,990	3,906	13,380	6,580	7,994	9,680	12,050	6,179	...
10 Area added, 1950-1959.....acres served 1960...	...	...	...	...	620	3,147	...	600	750	...
11 Area served by two or more projects.....acres served 1960...	...	...	...	...	...	...	...	1,640	...	...
PROJECTS, 1960, BY TYPE OF ORGANIZATION										
12 Drains owned by one landowner.....number of projects...	...	...	...	...	1	...	...	1	...	...
13 acres served ³...	...	...	...	...	620	...	...	600	...	...
14 Cooperative or mutual drains.....number of projects...	...	...	...	...	...	...	...	...	1	...
15 acres served ³...	...	...	...	...	...	...	...	...	750	...
16 Legally organized public drains.....number of projects...	1	5	5	3	3	8	8	9	3	...
17 acres served ³ ...	4,400	10,990	3,906	13,380	6,580	11,141	9,680	13,690	6,179	...
PROJECTS, 1960, BY YEAR STARTED										
18 1950-1959.....number of projects...	...	...	...	...	1	1	...	1	1	...
19 acres served ³...	...	...	...	...	620	2,647	...	600	750	...
20 Prior to 1950.....number of projects...	1	5	5	3	3	7	8	9	3	...
21 acres served ³ ...	4,400	10,990	3,906	13,380	6,580	8,494	9,680	13,690	6,179	...
DRAINAGE OPERATIONS, 1950-1959 ⁴										
22 Cost of drainage works and services.....projects reporting...	1	1	3	...	3	7	1	2	(⁵)	...
23 dollars...	4,000	12,000	935	...	11,700	19,671	200	54,203	(⁵)	...
24 New drainage works constructed, enlarged, or installed.....projects reporting...	...	...	...	...	(⁵)	2	...	(⁵)	(⁵)	...
25 dollars...	...	...	...	...	(⁵)	12,791	...	(⁵)	(⁵)	...
26 Open ditches.....projects reporting...	...	...	...	...	(⁵)	2	...	(⁵)	(⁵)	...
27 length, miles...	...	...	...	...	(⁵)	4.5	...	(⁵)	(⁵)	...
28 Tile or covered drains.....projects reporting...	...	...	...	...	(⁵)	...	...	(⁵)	...	...
29 length, miles...	...	...	...	...	(⁵)	...	...	(⁵)	...	...
30 Levees or dikes.....projects reporting...	...	...	...	...	(⁵)	...	...	(⁵)	...	...
31 length, miles...	...	...	...	...	(⁵)	...	...	(⁵)	...	...
32 Pumps.....projects reporting...	...	...	...	...	(⁵)	...	...	(⁵)	...	...
33 number of pumps...	...	...	...	...	(⁵)	...	...	(⁵)	...	...
34 Other (see text).....projects reporting...	...	...	...	...	...	...	...	...	...	...
35 Cost of maintenance, operation, repair, and administration.....projects reporting...	1	1	3	...	(⁵)	5	1	(⁵)	...	...
36 dollars...	4,000	12,000	935	...	(⁵)	6,880	200	(⁵)	...	...

¹Includes LaCrosse and Wood counties.²Land served by two or more projects counted only once.³Acres served by two projects are included for each project. See text.⁴Includes projects taken over by another project prior to 1960. See text.⁵Included in State total only.

State Table 1.—DRAINAGE PROJECTS—NUMBER, AREA, COST, AND WORKS, 1920 TO 1960

[See text for comparability of data]

Item	1960 Census	1950 Census	1940 Census	1930 Census	1920 Census
AREA					
Approximate land area.....acres...	62,343,040	62,403,840	62,403,840	62,430,720	62,430,720
Land in farms.....acres...	36,199,666	34,420,892	28,025,979	23,525,234	11,809,351
Drainage projects.....number...	6	189	25	NA	NA
Total area in drainage projects.....acres served...	23,833	325,981	312,662	245,703	95,474
Area not used for agriculture or not drained.....acres served...	...	NA	NA	NA	NA
Net area drained and used for agriculture.....acres served...	23,833	NA	¹ 287,420	¹ 188,327	NA
Drainage established 10 years or more before Census date.....acres served...	23,833	NA	NA	NA	NA
Drainage established within 10 years of Census date.....acres served...	...	NA	NA	NA	NA
Area served by two or more projects.....acres served...	...	500	...	2,613	...
PROJECTS BY TYPE OF ORGANIZATION					
Drains owned by one landowner.....number of projects...	...	(²)	NA	NA	NA
acres served...	...	(²)	(²)	(²)	² 500
Cooperative or mutual drains.....number of projects...	...	² 2	...	...	...
acres served...	...	² 2,669	...	...	...
Legally organized public drains.....number of projects...	6	² 17	NA	NA	NA
acres served...	23,833	² 84,116	² 88,803	² 89,908	² 60,834
PROJECTS BY YEAR STARTED					
Started 10 years or more before Census date.....number of projects...	6	² 17	NA	NA	...
acres served...	23,833	² 84,116	312,662	137,154	...
Started within 10 years of Census date.....number of projects...	...	² 2	...	NA	NA
acres served...	...	² 2,669	...	108,549	95,474
OPERATIONS, 10-YEAR PERIOD PRECEDING CENSUS DATE					
Cost of drainage works and services.....projects reporting...	6	² 14	NA	NA	NA
dollars...	145,293	163,163	NA	NA	NA
New drainage works constructed, enlarged, or installed.....projects reporting...	1	² 2	NA	NA	NA
cost, dollars...	² 300	² 12,237	NA	NA	NA
Open ditches.....projects reporting...	...	2	NA	NA	NA
length, miles...	...	5	NA	NA	NA
Tile or covered drains.....projects reporting...	1	...	NA	NA	NA
length, miles...	0.4	...	NA	NA	NA
Levees or dikes.....projects reporting...	...	...	NA	NA	NA
length, miles...	...	...	NA	NA	NA
Pumps.....projects reporting...	...	NA	NA	NA	NA
number of pumps...	...	NA	NA	NA	NA
Other (see text).....projects reporting...	...	NA	NA	NA	NA
Cost of maintenance, operation, repair, and administration.....projects reporting...	6	NA	NA	NA	NA
dollars...	142,993	150,926	NA	NA	NA
STATUS ON CENSUS DATE					
Capital investment.....dollars...	NA	NA	5,594,856	5,250,573	1,175,962
Physical works:					
Open ditches.....length, miles...	NA	NA	643.3	521.0	25.1
Tile drains.....length, miles...	NA	NA	262.1	237.6	114.2
Levees and dikes.....length, miles...	NA	NA	7.2	...	...
Pumping units.....number of units...	NA	(²)	NA	...	...

NA Not available.

¹Not fully comparable. See text.²1950 figures exclude 170 projects and 239,196 acres in "irrigation enterprises"; 1940 figures exclude 223,859 acres in "irrigation enterprises"; 1930 figures exclude 155,795 acres in "irrigation enterprises"; 1920 figures exclude 34,140 acres in "irrigation enterprises."³Cost of new works for lands not previously drained.

State Table 2.—DRAINAGE

Size of project (Based on area of agricultural land in project)	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
		Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
				Projects reporting	Acres	Projects reporting	Acres
1 All projects.....	6	23,833	...	6	23,833	...	...
2 500 to 999 acres.....	...	...	...	...	...	...	...
3 1,000 to 1,999 acres.....	2	3,455	...	2	3,455	...	...
4 2,000 to 4,999 acres.....	1	3,347	...	1	3,347	...	...
5 5,000 to 9,999 acres.....	3	17,031	...	3	17,031	...	...
6 10,000 to 19,999 acres.....	...	...	...	...	...	...	...
7 20,000 to 49,999 acres.....	...	...	...	...	...	...	...
8 50,000 to 99,999 acres.....	...	...	...	...	...	...	...
9 100,000 or more acres.....	...	...	...	...	...	...	...

State Table 3.—DRAINAGE PROJECTS, 1960,

Type of organization	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
		Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
				Projects reporting	Acres	Projects reporting	Acres
1 All projects.....	6	23,833	...	6	23,833	...	...
2 Drains owned by one landowner.....	...	...	...	...	...	...	...
3 Cooperative or mutual drains.....	...	...	...	...	...	...	...
4 Legally organized public drains.....	6	23,833	...	6	23,833	...	...

State Table 4.—DRAINAGE PROJECTS, 1960,

Year of organization	Number of projects	Area drained and used for agriculture, 1960		Area by period drainage was established			
		Total (acres)	Served by two or more projects (acres)	Before 1950		Area added 1950-1959	
				Projects reporting	Acres	Projects reporting	Acres
1 All projects.....	6	23,833	...	6	23,833	...	...
2 1950-1959.....	...	...	...	...	...	...	...
3 Prior to 1950.....	6	23,833	...	6	23,833	...	...

PROJECTS, 1960, BY SIZE

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959								
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	
6	145,293	1	2,300	...	...	1	0.4	...	...	...	...	...
...
2	4,719	...	...	...	...	...	...	...	...	...	...	...
1	9,798	...	...	...	...	...	...	...	...	...	...	...
3	130,776	1	2,300	...	...	1	0.4	...	...	...	...	...
...
...
...
...
...

BY TYPE OF ORGANIZATION

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959								
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	
6	145,293	1	2,300	...	...	1	0.4	...	...	...	...	...
...
...
6	145,293	1	2,300	...	...	1	0.4	...	...	...	...	...

BY YEAR OF ORGANIZATION

Cost of drainage works and services, 1950-1959				New works constructed, enlarged, or installed, 1950-1959								
Total		For new works		Open ditches		Tile or covered drains		Levees and dikes		Pumps		Other, projects reporting
Projects reporting	Dollars	Projects reporting	Dollars	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Length (miles)	Projects reporting	Number	
6	145,293	1	2,300	...	...	1	0.4	...	...	...	...	...
...
6	145,293	1	2,300	...	...	1	0.4	...	...	...	...	...

County Table 1. -DRAINAGE PROJECTS, 1960 AND 1950; AND OPERATIONS, 1950-1959

[See text for comparability of 1960 and 1950 data]

Item and Census year	The State	Big Horn	Platte	Washakie	All other counties ¹
AREA					
1 Approximate land area.....acres 1960....	62,343,040	2,032,640	² 1,335,040	1,447,680	49,395,200
2 Land in farms.....acres 1959....	36,199,666	513,960	² 1,429,736	467,204	27,618,108
3 Drainage projects..... number 1960....	6	3	1	2	...
4 1950....	189	38	14	9	133
5 Total area in drainage projects ³.....acres served 1960....	23,833	10,350	1,680	11,803	...
6 1950....	325,981	105,143	5,661	39,535	175,642
7 Area not used for agriculture or not drained.....acres served 1960....	...	...	...	...	...
8 Not area drained and used for agriculture.....acres served 1960....	23,833	10,350	1,680	11,803	...
9 Drainage established before 1950.....acres served 1960....	23,833	10,350	1,680	11,803	...
10 Area added, 1950-1959.....acres served 1960....	...	...	...	...	...
11 Area served by two or more projects.....acres served 1960....	...	...	...	...	...
PROJECTS, 1960, BY TYPE OF ORGANIZATION					
12 Drains owned by one landowner.....number of projects....	...	...	...	...	...
13 acres served ⁴....	...	...	...	...	...
14 Cooperative or mutual drains.....number of projects....	...	...	...	...	...
15 acres served ⁴....	...	...	...	...	...
16 Legally organized public drains.....number of projects....	6	3	1	2	...
17 acres served ⁴	23,833	10,350	1,680	11,803	...
PROJECTS, 1960, BY YEAR STARTED					
18 1950-1959.....number of projects....	...	...	...	...	...
19 acres served ⁴....	...	...	...	...	...
20 Prior to 1950.....number of projects....	6	3	1	2	...
21 acres served ⁴	23,833	10,350	1,680	11,803	...
DRAINAGE OPERATIONS, 1950-1959 ⁵					
22 Cost of drainage works and services.....projects reporting....	6	3	1	2	...
23 dollars....	145,293	22,549	1,250	121,494	...
24 New drainage works constructed, enlarged, or installed.....projects reporting....	1	...	...	1	...
25 dollars....	2,300	...	...	2,300	...
26 Open ditches.....projects reporting....	...	...	...	...	...
27 length, miles....	...	...	...	...	...
28 Tile or covered drains.....projects reporting....	1	...	...	1	...
29 length, miles....	0.4	...	...	0.4	...
30 Levees or dikes.....projects reporting....	...	...	...	...	...
31 length, miles....	...	...	...	...	...
32 Pumps.....projects reporting....	...	...	...	...	...
33 number of pumps....	...	...	...	...	...
34 Other (see text).....projects reporting....	...	...	...	...	...
35 Cost of maintenance, operation, repair, and administration.....projects reporting....	6	3	1	2	...
36 dollars....	142,993	22,549	1,250	119,194	...

¹Includes Albany, Carbon, Converse, Crook, Fremont, Goshen, Hot Springs, Johnson, Laramie, Lincoln, Natrona, Park, Sheridan, Sublette, Sweetwater, Teton, and Uinta counties.²The excess of farm acreage over approximate land area is due to the fact that the entire acreage of a farm is tabulated as in the county in which the headquarters is located, even though a part of the farm may be situated in an adjoining county.³Land served by two or more projects counted only once.⁴Acre served by two projects are included for each project. See text.⁵Includes projects taken over by another project prior to 1960. See text.

APPENDIX

The Questionnaire

(357)

Form 502D (5-12-56)	This census is authorized by Act of Congress, United States Code, Title 13, Sections 5, 9, 142, 221, 223, and 224, requiring that the inquiries be answered completely and accurately, and guaranteeing that the information furnished be accorded confidential treatment. <i>The census report cannot be used for purposes of taxation, investigation, or regulation.</i>	Budget Bureau No. 61-056 Approval expires December 31, 1960												
<div style="text-align: center;"> U.S. DEPARTMENT OF COMMERCE—BUREAU OF THE CENSUS WASHINGTON D1 CENSUS OF DRAINAGE OF AGRICULTURAL LANDS: 1960 </div>														
State _____ County _____														
Section I.—ORGANIZATION														
1. What is the name of this drainage project or organization? _____ (a) If the name of the organization which controls it is different, give name of organization here _____		10. What new drainage works have been constructed, enlarged, or installed, during this 10-year period? None <input type="checkbox"/> <i>(If "None," mark X and skip to Section III.)</i> (a) Open ditches? None <input type="checkbox"/> Miles _____ /10 or Linear feet _____ (b) Tile or other covered drains? None <input type="checkbox"/> Miles _____ /10 or Linear feet _____ (c) Levees or dikes? None <input type="checkbox"/> Miles _____ /10 or Linear feet _____ (d) Pumps? None <input type="checkbox"/> Number _____ (e) Other? None <input type="checkbox"/> _____												
2. What person or persons may be contacted in reference to this drainage project or organization? <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%; border-bottom: 1px solid black;">Name _____</td> <td style="width: 40%; border-bottom: 1px solid black;">Connection with project or organization _____</td> </tr> <tr> <td style="border-bottom: 1px solid black;">Address _____</td> <td style="border-bottom: 1px solid black;">Telephone number _____</td> </tr> <tr> <td style="border-bottom: 1px solid black;">Name _____</td> <td style="border-bottom: 1px solid black;">Connection with project or organization _____</td> </tr> <tr> <td style="border-bottom: 1px solid black;">Address _____</td> <td style="border-bottom: 1px solid black;">Telephone number _____</td> </tr> <tr> <td style="border-bottom: 1px solid black;">Name _____</td> <td style="border-bottom: 1px solid black;">Connection with project or organization _____</td> </tr> <tr> <td style="border-bottom: 1px solid black;">Address _____</td> <td style="border-bottom: 1px solid black;">Telephone number _____</td> </tr> </table>		Name _____	Connection with project or organization _____	Address _____	Telephone number _____	Name _____	Connection with project or organization _____	Address _____	Telephone number _____	Name _____	Connection with project or organization _____	Address _____	Telephone number _____	11. Of the total costs of works and services provided in this 10-year period (question 9), how much represented new drainage works (question 10)? None <input type="checkbox"/> \$ _____ 12. Where is the outlet of the new drainage works? (a) Name of lake, stream, or ditch receiving discharge _____ (b) Location of outlet: Section _____; Township _____; Range _____ or _____ miles _____ (direction) _____ from _____ (nearest town or place) _____
Name _____	Connection with project or organization _____													
Address _____	Telephone number _____													
Name _____	Connection with project or organization _____													
Address _____	Telephone number _____													
Name _____	Connection with project or organization _____													
Address _____	Telephone number _____													
3. Is this project or organization— (a) Owned by one land owner (individual, partnership, corporation, or institution)? <input type="checkbox"/> <i>(If (a) is marked, skip to question [6].)</i> (b) A cooperative or mutual organization? <input type="checkbox"/> <i>(If (b) is marked, skip to question [6].)</i> (c) A legally organized public organization? <input type="checkbox"/>														
4. Has this drainage project or organization— (a) Officials now to conduct its business? <input type="checkbox"/> (b) No officials now, and has never been legally dissolved? <input type="checkbox"/> (c) Been dissolved by court action? <input type="checkbox"/>														
5. Does this project provide any major public service other than agricultural drainage? (Storm water removal, flood control, mosquito control, sewage disposal, etc.) No <input type="checkbox"/> Yes <input type="checkbox"/> If "Yes," describe public service provided: _____														
[6] What year was this drainage project or organization started? Before 1950? <input type="checkbox"/> 1950 or later? <input type="checkbox"/> → What year? _____ 7. Does this drainage project extend into counties other than the county listed at the top of this questionnaire? No <input type="checkbox"/> Yes <input type="checkbox"/> If "Yes," what other counties? _____ If the drainage organization operates, or the drainage project extends into other counties, separate questionnaires are required for the portions in each county. The information given for the following questions should relate only to the portion in this county. See worksheet on back of this questionnaire.														
Section II.—OPERATIONS DURING 10 YEARS—1950 TO 1959														
You may report on either a calendar or fiscal year basis. Indicate which. Calendar year basis <input type="checkbox"/> Fiscal year basis <input type="checkbox"/> Jan. 1, 1950, through Dec. 31, 1959, through _____ (month) (day) _____ (month) (day) 19____ (You may use worksheet on back to total operations for the 10-year period.)														
8. During the past 10 years, has there been by or for the management of this project or organization any— (a) Construction or installation of new drainage works, including enlargement or complete replacement of prior works? No <input type="checkbox"/> Yes <input type="checkbox"/> (b) Major clean-out or restoration of old works? No <input type="checkbox"/> Yes <input type="checkbox"/> (c) Maintenance, operation, or repair of drainage works? No <input type="checkbox"/> Yes <input type="checkbox"/> (d) Other operations? No <input type="checkbox"/> Yes <input type="checkbox"/> If "Yes" for (d), describe: _____ If "No" for all parts (a) through (d), skip to Section III.		13. What was the total area included in this drainage project or organization in this county on January 1, 1950? None <input type="checkbox"/> Acres _____ <i>(If "None," skip to question [15].)</i> 14. How much area has been added since January 1, 1950? None <input type="checkbox"/> Acres _____ [15] What was the total area for this project or organization on January 1, 1960? Acres _____ (If organized before 1950, and area in 1960 does not equal sum of questions 13 and 14, explain under Remarks.) 16. Are there within this total area (question 15) any contiguous tracts totaling 500 or more acres of any of the following— (a) Land that no longer receives drainage benefits from these drainage facilities (because drainage works have deteriorated completely)? No <input type="checkbox"/> Yes <input type="checkbox"/> (b) Land that receives no drainage benefits from works of this project. Include land protected from overflow with no drains provided for the protected land? No <input type="checkbox"/> Yes <input type="checkbox"/> (c) Land for which the need for drainage resulted solely because of irrigation? No <input type="checkbox"/> Yes <input type="checkbox"/> (d) Land not now being used for agriculture? No <input type="checkbox"/> Yes <input type="checkbox"/> (Wasteland, outcrop land, residential, industrial, airports, military installation, public parks, wildlife refuge, State or National Forest, commercial woodland, etc.) Give present use and identify name of tract when possible: _____ 17. If "Yes" for any part of question 16—What is the total area of the tracts with "Yes"? Acres _____												

To enumerator:
Check shaded areas
when area to left has
been mapped

Section IV.—OVERLAPPED AREA		Section V.—CERTIFICATION																					
<p>18. Has any other drainage project or organization, at any time during the past 10 years—</p> <p>(a) Taken over all or any part of this project? No <input type="checkbox"/> or <input type="checkbox"/></p> <p style="text-align: center;">(Name of other project or organization) (Acres taken over)</p> <p>(b) Been taken over in whole or in part by this project or organization? No <input type="checkbox"/> or <input type="checkbox"/></p> <p style="text-align: center;">(Name of other project or organization) (Acres taken over)</p> <p>(c) Provided any separate or supplemental drainage service for all or any part of the area in this project or organization? No <input type="checkbox"/> or <input type="checkbox"/></p> <p style="text-align: center;">(Name of other project or organization) (Acres with dual service)</p>		<p>19. Who supplied this information?</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Name</td> <td style="width: 30%;">Title</td> <td style="width: 20%;">Date</td> <td style="width: 20%; text-align: center;">19</td> </tr> <tr> <td colspan="2">Mail address</td> <td colspan="2">Telephone No.</td> </tr> <tr> <td colspan="2">Name</td> <td>Title</td> <td>Date</td> </tr> <tr> <td colspan="2">Mail address</td> <td colspan="2">Telephone No.</td> </tr> </table> <p>Certified by— _____, Enumerator Date (month and day) _____</p> <p>Checked by— _____, Drainage Supervisor Date (month and day) _____</p> <p style="text-align: center;">OFFICE USE</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">Area 1950 Census</td> <td style="width: 25%;">Area overlapped in 1950</td> <td style="width: 25%;">Area overlapped in 1960</td> <td style="width: 25%;">Net area served in 1960</td> </tr> </table>		Name	Title	Date	19	Mail address		Telephone No.		Name		Title	Date	Mail address		Telephone No.		Area 1950 Census	Area overlapped in 1950	Area overlapped in 1960	Net area served in 1960
Name	Title	Date	19																				
Mail address		Telephone No.																					
Name		Title	Date																				
Mail address		Telephone No.																					
Area 1950 Census	Area overlapped in 1950	Area overlapped in 1960	Net area served in 1960																				
<p>REMARKS:</p>																							

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THE DIRECTOR

DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS
WASHINGTON 25

Dear Sir:

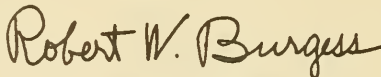
A Census of Drainage organizations covering drainage operations for the year 1959 is now being taken by the Bureau of the Census. An Act of Congress (13 USC; Sec. 142) directs the Bureau of the Census to take this census and requires a report from you. This same Act requires that information furnished for your organization (1) be kept confidential, and (2) that your report may be seen only by sworn employees of the Bureau of the Census. The information provided cannot be used for taxation, regulation, or investigation.

It is important that all questions on the attached form be answered for your organization. Where exact information cannot be given, you are requested to supply carefully prepared estimates.

The enclosed form should be filled even though the organization is no longer active or the drains are no longer functioning. A sketch map of the project lands may be required. This map is necessary provided any drained areas have been added since January 1, 1950 or if any sizeable acreage within the project boundaries does not represent agricultural lands served by the drainage works of this project. If no area has been added since 1950 and only agricultural lands are served by the works, a map of the project lands need not be furnished. If you are unable to supply the requested information, will you please enter, under question 2 of the form, the name of the person who can.

Please fill out and return the enclosed form within 30 days. Please use the self-addressed official envelope, which does not require postage, to return your report.

Sincerely yours,



Robert W. Burgess
Director
Bureau of the Census

Enclosure

60-11-160L
(10-12-59)

D3

This census is authorized by Act of Congress, United States Code, Title 13, Sections 5, 9, 142, 221, 223, 224, requiring that the inquiries be answered completely and accurately, and guaranteeing that the information furnished be accorded confidential treatment. The census report cannot be used for purposes of taxation, investigation, or regulation.

D2 No.

U.S. DEPARTMENT OF COMMERCE—BUREAU OF THE CENSUS
PARSONS, KANSAS**D2** SURVEY OF DRAINAGE OF
IRRIGATED AGRICULTURAL LANDS **1960**

1. What organization(s) or person(s) is(are) responsible for the drainage of 500 or more acres of agricultural lands served by your irrigation project?

Name _____

Mail address _____

Name _____

Mail address _____


Dear Sirs:

In preparation for the 1960 Census of Drainage, authorized by an Act of Congress, we must obtain a few facts about the drainage of lands served by your irrigation project.

Will you kindly fill in the information requested at the right of this letter and return in the enclosed official envelope which requires no postage.

Your cooperation in furnishing this information will be greatly appreciated.

Sincerely yours



Robert W. Burgess
Director
Bureau of the Census

Budget Bureau No. 41-59101
Approval expires June 30, 1960

Budget Bureau No. 41-59101
Approval expires June 30, 1960

2. Did the need for this drainage arise solely because of irrigation?

☐

Yes, to control alkali or seepage from irrigation.

☐

No, drainage was to improve naturally wet lands.

(Mark one.)

3. Are 500 acres or more drained by constructed works?

☐

Yes (500 acres or more are drained).

☐

No (less than 500 are drained).

(Mark one.)

Remarks: _____

DRAINAGE OF AGRICULTURAL LANDS

UNITED STATES DEPARTMENT OF AGRICULTURE
Soil Conservation Service
Washington 25, D. C.

ADVISORY NOTICE W-1496

October 2, 1959

To: Work Unit Conservationists

From: D. A. Williams, Administrator

Re: RECORDS AND REPORTS - Information on Drainage Enterprises for the
1960 Census of Drainage

The Bureau of the Census has requested the assistance of the Soil Conservation Service in connection with the taking of the 1960 Census of Drainage. The 1960 Census of Drainage will include all drainage projects that benefit 500 acres or more of land for agriculture.

Under the proposed plans primary dependence of coverage will be the preparation in advance of the enumeration of a listing of the projects to be enumerated. As a starting point the Bureau of the Census expects to canvass all projects that were included in the last Census, that of 1950.

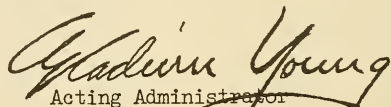
The Bureau of the Census is depending upon the Soil Conservation Service to provide a listing of drainage projects undertaken since 1950.

Will you kindly list in the spaces provided any projects in or partially in the county, or counties, served by your office. Include only projects that provide drainage benefits for approximately 500 or more acres of land for agriculture. Include only jobs completed or started since January 1, 1950. Include all projects--group, individual, and public--irrespective of whether they received technical assistance from SCS. Do not include projects where the need for drainage resulted solely because of irrigation.

In many cases you will be able to provide information on physical works, costs, and maps and you should so indicate in the appropriate boxes. Later, when the enumeration is under way, we would appreciate any help you might be able to give the Drainage Census enumerator.

Three copies of each list should be prepared. The original and one copy should be mailed to the state office and one copy retained in the files of the preparing office. The Bureau of Census has requested us to provide this information by November 9, 1959, so your list should reach the state office by November 2, 1959.

In those counties where no new drainage projects of 500 acres or more in size have been undertaken since 1950, the work unit conservationist should return the list to the state office showing the county names, and indicating the absence of new projects.

STC
WUC-3
Acting Administrator

State _____
County _____

LISTING OF DRAINAGE PROJECTS UNDERTAKEN SINCE 1950,
FOR USE OF THE BUREAU OF THE CENSUS

Name of project	<input type="checkbox"/> No projects <input type="checkbox"/> farm <input type="checkbox"/> mutual project	Approximate area benefited for agriculture	Project is a—		Legally organized project	Name and address of person(s) to contact for information for — (If two or more persons for one project, use a separate line for each person)				Physical works	Costs	Maps Flats	Remarks
			Single farm project	Cooperative or mutual project									
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			<input type="checkbox"/>	<									

The above information furnished by—

Name	_____	Title	_____	Date	_____	19
Address	_____			month	day	_____

DRAINAGE OF AGRICULTURAL LANDS

Form 60-02-65
(4-7-60)U.S. DEPARTMENT OF COMMERCE
Bureau of the Census

State

WORKSHEET FOR EDITING--CENSUS OF DRAINAGE: 1960

County

Planimeter measurements: (Map scale: _____)
(Conversion: _____)

By

Item	Reported	Planimeter			
		1st	2d	3d	Mean
1. 1950 Census (Area mapped in 1950)					
2. 1950 add (1950 area reported in 1960 and not mapped in 1950)					
3. 1950 out (1950 mapped area not included in 1960 Census)					
4. Added 1950-1959 (Area not mapped in 1950 and reported as added since 1-1-50)					
5. Total 1960 (1 + 2 - 3 + 4)					
6. Non-agricultural and nondrained					
7. Net agricultural (5-6)					
8. Agricultural areas served by 2 or more projects					

Remarks:

Work lines:

By

D

D1 number	1950 add	1950 out	Added 1950-1959	Non-agricultural or non-drained	Agricultural areas served by 2 or more projects	Planimeter ¹	Re
	(1)	(2)	(3)	(4)	(5)	(6)	
9. Total							

¹Post D1 question numbers for areas requiring measurement.
Show planimeter measurements of indicated areas on back of sheet.
Encircled figures represent adjustments needed for tables.

CONTERMINOUS UNITED STATES—LOCATION OF LAND IN DRAINAGE PROJECTS, 1960
(Projects benefiting 500 or more acres of agricultural land)

